e Itliming Imma

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

[The MINING JOURNAL is Registered at the General Post Office as a Newspaper, and for Transmission Abroad]

No. 2303.—Vol. XLIX.

LONDON, SATURDAY, OCTOBER 11, 1879.

SUPPLEMENT. PRICE SIXPENCE.

MR JAMES H. CROFTS, STOCK AND SHARE BROKER, AND MINING SHARE DEALER, No. 1, FINCH LANE, CORNHILL, LONDON, E.C. ESTABLISHED 1842.

BUSINESS transacted in all descriptions of Mining Stocks and Shares (British and Foreign), Consols, Banks, Bonds (Foreign and Colonial), Railways, Insurance, Assurance, Telegraph, Tramway, Shipping, Canal, Gas, Water, and Dock Shares, and all Miscellaneous Shares.

BUSINESS negociated in Stocks and Shares not having a general market value. Every Friday a general and reliable List issued (a copy of which will be forwarded regularly on application), containing closing prices of the week.

MINES INSPECTED.

BANKERS: CITY BANK, LONDON-SOUTH CORNWALL BANK, St. AUSTELL.

| SPECIAL DEALINGS in the following, or part:—|
25 Colorado, £1½,	150 Javaii, 7s. 3d.	
20 Devon Consols,	50 Killifreth, 7s. 6d.	
20 East Van, £2 8s. 9d.	20 Ebenhardt. £2½,	45 Morfa Du, 16s.
20 Frontino, £2 8s. 9d.	100 Peatarena, 4s. 6d.	
20 Herodsfoot, £2¾,	100 Parys Corporat., 15 6	
26 Section Research	150 Parys Corporat., 15 6	
27 Section Research	150 Parys Corporat., 15 6	
28 Section Research	150 Parys Corporat., 15 6	
28 Section Research	150 Parys Corporat., 15 6	
28 Section Research	150 Parys Corporat., 150 Parys	

100 Penstruthal, 1s.
10 Richmond, £8,
20 Tankerville, £4½.
25 West Assheton, 16s 3d
25 Wye Valley, 20s.
20 West Chiverton.
20 Wheal Crebor, £4 2s 6

SPECIAL BUSINESS in TIN Shares — Carn Brea, Dolcoath, East Lovell, South Condurrow, South Frances, Tincroft, West Frances, West Peevor, Wheal Basset, Grenville, Jane, Kitty, Peevor, and others. *,* Shares Sold for Forward Delivery (One, Two, or Three Months)
on Deposit of Twenty per Cent.

RAILWAYS-SPECIAL BUSINESS. FOREIGN BONDS-SPECIAL BUSINESS. Fortnightly accounts opened on receipt of the usual cover.

JAMES H. CROFTS, 1, FINCH LANE, LONDON. ESTABLISHED 1842.

MR. W. H. BUMPUS, STOCK AND SHARE BROKER. AND MINING SHARE DEALER, 44, THREADNEEDLE STREET, LONDON, E.C. ESTABLISHED 1867.

BUSINESS transacted in STOCK EXCHANGE SECURITIES and MISCELLANEOUS SHARES of every description. RAILWAYS, BANKS, FOREIGN and COLONIAL BONDS. TRAMWAYS, TELEGRAPHS, and all the LEADING INVESTMENTS. Accounts opened for the Fortnightly Settlement
A Stock and Share List free on application.

MR. BUMPUS has SPEC 75 Almada, 6s. 6d. 10 Boddictis. 7s. 6d. 30 Blue Tent, 37s. 6d. 55 Bedford United, 11s 6 40 Colorada, 29s. 6d. 50 Canada, Gold. 10 Cape Cappier, 229%. 10 Cape Cappier, 23%. 10 Cape Cappier, 23%. 10 Don Pedro, 13s. 6d. 2 Dolcoath, 242%. 30 East Caradon, 23s, 15 East Lovell, 24. 55 East Van, 42 5s. 9d. 5 East Pool, £17%. 20 Eberhardt, £2%.

A Stock and Share List free on application.

MR. BUMPUS has SPECIAL BUSINESS in the undermentioned:—
55 Almada, 6a. 6d.
56 Brontino, £2 8s. 9d.
50 Bodidris.
30 Bitue Tent, 37s. 6d.
32 Bute Tent, 37s. 6d.
40 Colorado, 29s. 6d.
56 Creat Holway.
50 Canad fold.
3 Carn Brea, £52.
10 Cape Capper, \$229.
10 Cape Capper, \$229.
10 Cape Capper, \$229.
10 Cape Capper, \$229.
10 Cape Capper, \$234.
10 Don Pedro, 13s. 6d.
20 Dolcoath, £424.
21 Dolcoath, £424.
22 Bast Van, £2 8s.
23 East Lovell, £4.
25 East Yen, £2 8s.
26 East Pool, £1736.
26 Marke Valley, 28s.
27 West Holway.
28 Marke Valley, 28s.
28 East Pool, £1736.
29 Eberhardt, £224.
20 Marke Valley, 28s.
20 West Beton,

IMPORTANT TO INVESTORS.
THE RISE IN TIN AND COPPER.
SOUND INVESTMENTS IN HOME MINES.

SOUND INVESTMENTS AN HOME MINES.

Those who have followed my advice during the past two months (and for some time previously) may already realise good profits; but with the revival of Trade generally, and the greatly improved position and prospects of the Metal Markets, there is ample room for a further rise in SOUND TIN and COPPER SHARES. A judicious purchase of these at present prices cannot fail to produce very remunerative results within a comparatively short period. Shares in SOUND LEAD MINES are also worth buying.

A Selected List free to bona fide investors.

SPECIAL BUSINESS, at close prices, in the SHARES of all the principal HOME and FOREIGN MINES.

A complete and reliable List of all the Leading Investments (published on the first of each month) may be obtained free on application to—
WILLIAM HENRY BUMPUS, SWORN BROKER.
OFFICES: 44, THREADNEEDLE STREET, LONDON, E.C.

BANKERS: THE NATIONAL PROVINCIAL BANK OF ENGLAND, E.C.

MESSES. JONES AND HOUSTON, 25, CROSBY HALL CHAMBERS, LONDON, E.C.,

STOCK AND SHARE DEALERS, AND GENERAL MINING AGENTS.

Can, without prejudice, recommend to their clients and investors in general the purchase of Shares in the following properties:

BRYN GLAS.

DON PEDRO.

PANTY-MWYN.

BRYN GLAS.

PANTY-MWYN.

BRYN GLAS.—These shares will shortly be allotted, after which they cannot il to command a high premium, more particularly as the applications will no public exceed the number to be allotted, and the mine is undoubtedly second to the control of additionables as wently and the mine is undoubtedly second to

BANKERS: LONDON AND PROVINCIAL,

MR. E. J. BARTLETT, BRITISH AND FOREIGN STOCK AND SHARE DEALER, No. 30, GREAT ST. HELEN'S, LONDON, E.C.

"HOW TO INVEST," post free, One Shilling, Twelfth Edition, enlarged.

FERDINAND R. KIRK, 5, BIRCHIN LANE,
LONDON, E.C.
FORTNIGHTLY ACCOUNTS opened, on receipt of the usual "cover," in
Railways Home and Foreign, Mining Shares, Foreign Bonds, and certain Miscellaneous Securities.

"THE WEEK."—A SEPARATE EDITION from that which appears in the Mining Journal is published every Wednesday evening, containing "Notes and Hints on the Stock Markets," with Closing Prices. May be had on application. BANKERS: LONDON AND WESTMINSTER, Lothbury.

MR. GEORGE BUDGE, STOCK AND SHARE DEALER, 9, GRACEOHURCH STREET, LONDON, E.O. (Established 26 years). ALL BUSINESS TRANSACTED FREE OF ANY CHARGE FOR COMMISSION.

Mr. BUDGE has SPECIAL DEALINGS in—

100 Bedford United.

100 Bano Caelan, £35, 50 Gawton.

100 Bodidris, 20s.

100 Bodidris, 2

HOME MINES-LEAD, TIN, AND COPPER.

BRITISH LEAD, TIN, and COPPER having been lower in price than ever

known, it is at last satisfactory to observe an upward tendency. The general feeling is that these METALS will now continue to rise in price.

Most of our HOME leading DIVIDEND and PROGRESSIVE LEAD, COPPER, and TIN MINE SHARES are now at a mere NOMINAL figure, of which can be had on application.

MESSES. PETER WATSON AND CO.,

54, OLD BROAD STREET, LONDON, E.C.,

TINITED STATES AND COLONIAL MINES.

IMPORTANT INFORMATION REGARDING THE ABOVE. BUYER and SELLER of SHARES at the close Market Price of the day.

SHAREHOLDERS and INVESTORS may rely on all business being punctually and faithfully carried out.

A DAILY LIST OF PRICES sent (free) on application, either personally or by post.

BANKERS: THE ALLIANCE BANK (Limited).

MESSES. PETER WATSON AND CO... 54, OLD BROAD STREET, LONDON, E.C.

BRITISH AND FOREIGN MINES

SHAREHOLDERS and INVESTORS desirous of PURCHASING or SHAREHOLDERS and INVESTORS desirous of PURCHASING or SELLING SHARES in COPPER, TIN, LEAD, GOLD, or SILVER MINES can do so at market prices, and obtain information regarding the same on personal application, or by letter, of—

MESSRS. PETER WATSON AND CO.,

54, OLD BROAD STEEET, LONDON, E.C. Telegraphic Messages punctually attended to.

STOCK AND SHARE MARKETS.

Prices of STOCKS and SHARES in RAILWAYS, BANKS, ENGLISH and FOREIGN GOVERNMENT SECURITIES, GAS, MINES, INSURANCE, and other Stock Exchange Securities, and various important information telegraphed instantaneously from the STOCK AND SHARE MARKETS direct into the offices of-

MESSES. PETER WATSON AND CO., 54, OLD BROAD STREET, LONDON, E.C. From 11 A.M. to 4 P.M. (Saturdays 11 A.M. to 2 P.M.) for the information of customers.

ALFRED H. COO STOOK AND SHARH DHALFR. 76, OLD BROAD STREET, LONDON. HSTABLISHED 1853. COOKE.

SPECIAL.—The ATTENTION OF INVESTORS is respectfully directed to "INVESTMENT NOTES," by Mr. ALFRED E. Cooke, in the Mining Journal. Any of the shares recommended, and ALL MARKETABLE SHARES, can be supplied at closest current prices, and on BETTERE TERMS than those PUBLICLY ADVERTISED. The highest price is also given to Sellers. Telegrams command immediate attention, Mr. Cooke's offices being much closer to both the Stock Exchange and Mining Market than those of any other Dealer or Broker. 76, OLD BROAD STREET, LONDON.

(Adjoining the Stock Exchange and Mining Markets.)

STOCKS AND SHARES. FOREIGN BONDS, TELEGRAPHS, TRAMWAYS, RAILWAYS, AND OTHER LEADING SECURITIES.

MR. JAMES STOCKER, STOCKBROKER, 2, CROWN COURT, THREADNELLE STREET, LONDON, E.C. ESTABLISHED 1848.
SPECIAL BUSINESS in BRITISH and FOREIGN MINES.

BANKERS: LONDON AND WESTMINSTER. MR. JOHN RISLEY, STOCK AND SHARE BROKER, 38, CORNHILL, LONDON, E.C. ESTABLISHED 20 YEARS.

Reliable information on all Mines obtained for clients.

MESSES. J. TAYLOR AND MINING ENGINEERS AND INSPECTORS, 86, LONDON WALL, LONDON, B.C., Have Agents in England, Scotland, Wales, and on the Continent.

M ESSRS. EKINS AND STOCK AND SHARE DEALERS, 14, QUEEN VICTORIA STREET, LONDON, E.C. BANKERS: METROPOLITAN.

JOHN B. REYNOLDS, STOCK AND SHARE DEALER, 37, WALBROOK, LONDON; ESTABLISHED 20 YEARS.—BANKERS: LONDON AND SOUTH-WESTERN. Confidential enquiries quickly answered. Telegrams promptly attended to. Close prices and accurate intelligence may be relied upon.

MR. J. J. REYNOLDS (THE PERFECTION GAS APPARATUS COMPANY), 6, MOORGATE STREET, LONDON, E.O., Thinks the present time good for investment, and will SELL at net prices the following shares:—

S. Roman Gravels, £9½.

S. Devon Consols, £18.

S. Van Consols, £18.

S. Van Consols, £18.

S. East Caradon.

And has BUSINESS in Bodidris, Pennant, Denbighshire Consolidated, and Lead Era.

MR. T. E. W. THOMAS, STOCK AND SHARE DEALER, 3, GREAT WINCHESTER STREET, E.C. The following are prices at which business can be done:

Buyers.

Buyers.

rices at which business can be done;—
Buyers. Sellers.

£40 £42½
11s. 13s. Parys Corporation 13s. £d. 14s. £d.
11s. 13s. 13s. Parys Corporation 13s. £d. 14s. £d.
11½. 1½
2 2 ½¼ West Pevor 4½. 4½;
2 2 ½¼ West Pevor 3½. 4½;
2 ½½ 2½ ¼ West Peror 3½. 4½;
2 ½½ 2½ ½ Wheat Greeville 5 5½;
13s. 15s. Wheet Jane 4 4½;
Friday Evening, October 10, 1875. Dolcoath
Don Pedro
East Caradon
Bast Van.
Herodsfoot
Leadhills
Morfa Du

MR. W. MARLBOROUGH, STOCK AND SHARE DEALER, 29, BISHOPSGATE STREET, LONDON, E.C., 29, BISHOPSGATE STREET, LONDON, E.C.,

Can SELL the following SHARES at prices annexed:

40 Bedford United, 9.

50 Chontales, 6s.

50 Don Pedro, 13s.

51 East Caradon, 26s. 6d,

call paid, 2s. 6d.

10 Bast Lovell, £314.

40 Morfa Du, 14s. 6d.

25 East Van, £2 5s.

20 N. Quebrada, £2 15s.

20 Eberhardt, £2 11s. 6d.

21 Fateley Bridge, 17s. 6d.

22 Greet Holway.

A BUYHE of 50 Tolima at £14.

M R. C H A R L E S T H O M MINING AGENT, STOCK AND SHARE DEALER, 3, GREAT ST. HELEN'S, LONDON, E.C.

M R. A L F R E D T H O M A 8, MINING AGENT, AND STOCK AND SHARE DEALER, 10, COLEMAN STREET, LONDON, E.C. "HOW TO TAKE ADVANTAGE OF THE COMING RISE IN PRICES,"

By ALFRED THOMAS, 10, Coleman-street, E.C. Will be forwarded to Investors upon application. MR. EDWARD ASHMEAD, 62, CORNHILL, LONDON,

LONDON MINE AGENT, ACCOUNTANT, AND AUDITOR. TO INVESTORS, SHAREHOLDERS, TRUSTEES

SAFE DIVIDEND INVESTMENTS PAYING 4 TO 6 AND 10 PER CENT.
PER ANNUM ON PRESENT OUTLAY,

SHARP'S IN VESTMENT OUTLAY,
The OCTOBER EDITION (post free),
SHOULD BE CONSULTED BY INVESTORS AND SHAREHOLDERS.
It is a Reliable "Guide," giving valuable information and Sound Advice, &c.
it gives Market prices; Dividends upon outlay, when payable; Reports, &c., &c.
IT CONTAINS ALL THE SAFE INVESTMENTS IN THE FOLLOWING:—

Roglish, Poreign Raliways.
Preference, Debenture Stocks.
Indian, American Stocks.
Bank, Financial Shares
Tramway, Telegraph Shares.
Municipal Bonds.

Insurance, Gas, Waterworks, Colonial, Foreign Stocks, British, Foreign, Colonial Mines. Tea, Land Shares, Shipping, Dock Shares, Miscellaneous Shares, &c., &c.

HENRY GOULD SHABP, STOCK AND SHARE BROKER, 42, POULTRY, LONDON, E.C.—ESTABLISHED 1852. BANKERS: LONDON AND WESTMINSTER, Lothbury, London, E.C.

MR. THOMAS THOMPSON, JUN., STOCK BROKER, 16, ST. SWITHIN S LANE, E.C.

Mr. Thompson transacts business in every species of Stock Exchange and Mining Securities.

Mr. Thompson affords reliable information to investors, and can give, when desired, a list of first-class Stocks and Shares, yielding 4 to 10 per cent. dividends npon present prices.

Mr. Thompson's weekly Circular may be had on application.

MESSRS. ENDEAN AND CO., STOCK AND SHARE DEALERS, 25, GRACECHURCH STREET, LONDON, E.C.

THE CREBOR DISTRICT.—Having our own independent agents we can urnish reliable information respecting mining properties in this neighbourhood

urnish reliable information respecting infining proporties in this neighbourhood in our usual terms.

TAMAR MINE—This mine is in the same district as Crebor, and shares should be bought at present low price.

BODIDRIS MINE.—Splendid specimens of ore from the Maes-y-pwil lode, just ecceived, may be seen at our office.

Full particulars on application to—

Messrs. ENDEAN and CO., 45, GRACECHURCH STREET, LONDON, E.C.

transacts Business in Stock Exchange and Mining Securities.

Special information to Investors in Lead Mines, sho in Swedish, Canadian, and other securities.

4. AUSTINFRIARS, LONDON, E.O.

FOR SALE, a FIRST-CLASS SECOND-HAND 80 in. CORNISH PUMPING ENGINE, with several 11 ton BOILERS.

Apply, WM. BENNETTS, Roskear, Camborne.

POR SALE, the WHOLE or PART:

2 D'Eresby Mountn. 25 Wheal Orebor.
20 Hornachos. 100 Bettwys-y-Coed.
50 Bwich United. 50 Morfa Du.
10 Wheal Peevor. 100 Parys Corporation.
25 West Peevor.

WANTED—£1000 by one, two, or four parties, for which they will receive £4000 worth of stock that is confidently anticipated will be worth double the amount in six months. in six months.

A Selected List of Dividend and Progressive Mines for an immediate rise will e forwarded upon application.

Address, H. Wilkins, 3, Heybourne Villas, Tottenham.

FOR SALE, -200 Almada and Tirito, 5s. 9d.; 25 Marke Valley, 22s. 8d. WANTED—50 Van Consols and Glyn United, 5s.; 25 East Vans (or part), £2; 100 Exchequer Gold, 2s. 8d.—all per share.
Address, "H. G. T.," MINING JOURNAL Office, 28, Fleet-street, London.

MR. JOHN L. M. FRASER,
(Fourteen Years at the Great Minera Mines)

CONSULTING MINING ENGINEER—SECRETARY AND AUDITOR—
ROYALTY AND MINERAL ESTATE AGENT—SHARE DEALER—
MINES, MINERALS, AND MACHINERY BROKER— GREENFIELD HOUSE, WREXHAM.

Is in a position to obtain valuable Mineral Setts on easy terms, and can introduce properties that, with a small additional outlay, will realise handsome profits.

Mines Inspected, Managed, and Surveyed at moderate charges.

Every description of Machinery at the lowest possible prices.

ON SALE—10 Per Cent. Preference Shares in a first-class Lead Mine. Full articulars on application.

B. DAVIDCONSULTING MINING AND MECHANICAL ENGINEER, AND LIGENSED VALUATOR, 58, RENFIELD STREET, GLASGOW.

Investigations, Reports, and Valuations made of Coal, Iron, Siate, Pyrites, and other properties at home and abroad. Enquiries for Road and Railway Materials, Mining Plant, Pipes, Castings, &c. Plans, &c., of the most modern and economical mining appliances, fittings, and arrangements.

I have been long acquainted with the principal Coal and Iron Works in the North, with the Slate Quarries in North Wales, and for many years was Chief Engineer of the Tharsis Mines, Works, and Railway in Spain.

THE LINARES LEAD MINING COMPANY
(LIMITED).

Notice is hereby given, that the HALF-YEARLY GENERAL MEETING of
the Shareholders of this company will be HELD at this office on THURSDAY,
the 16th instant, at One o'clock F.M., to receive the accounts, balance-sheet, and
reports of the directors and auditors for the half-year ending 30th June last.

By order of the Board,
H. SWAFFIELD, Secretary.

No. 5, Queen-street-place, London, E.C., Oct. 7, 1879.

THE ALAMILLOS COMPANY

Notice is hereby given, that the HALF-YEARLY GENERAL MEETING of the Shareholders of this Company will be HELD at this office, on THURSDAY, the 16th instant, at half-past One o'clock P.m., to receive the accounts, balancesheet, and reports of the directors and auditors for the half-year ending June 30 last.

By order of the Board,
H. SWAFFIELD, Secretary.

No. 5, Queen-street-place, London, E.C., Oct. 7, 1879.

THE FORTUNA COMPANY

(LIMITED).

Notice is hereby given, that the HALF-YEARLY GENERAL MEETING of the Shareholders of this Company will be HELD at this office on THURSDAY, the 18th instant, at Two o'clock F.M., to receive the accounts, balance-sheet, and reports of the directors and auditors for the half-year ending 30th June last.

By order of the Board,

H. SWAFFIELD, Secretary.

No. 3, Queen-street-place, London, B.C., Oct. 7, 1879.

LOCOMOTIVE TANK ENGINES

POR MAIN LINE TRAFFIC, SHORT LINES, COLLIERIES, CONTRACTORS, IRONWORKS, MANUFACTORIES, &c., from a superior pecification, equal to their first-class Railway Engines, and specially adapted to harp curves and heavy gradients, may always be had at a short notice from—MESSES. BLACK, HAWTHORN, AND CO.,

LOCOMOTIVE, MARINE, AND STATIONARY ENGINE WORKS, GATESHEAD-ON-TYNE.

THE SANDYCROFT FOUNDRY AND ENGINE WORKS COMPANY (LIMITED).

NEAR CHESTER Late the MOLD FOUNDRY COMPANY. Hetablished 1838.)

MAKERS OF
MINING MACHINERY,

CORNISH PUMPING, WINDING, AND EVERY OTHER DESCRIPTION OF ENGINE,

OF ENGINE,
PITWORK, BOILERS, FORGINGS,
WATER-WHEELS, ORE CRUSHING, STAMPING, AND DRESSING
MACHINERY,
GOLD AND BILVER AMALGAMATING MACHINERY,

MINING TOOLS,
ROCK DRILLS, AIR COMPRESSING ENGINES, and all the
necessary accessories for MACHINB BORING.
SPECIAL ATTENTION given to MACHINERY for FORBIGN MINES. SECOND-HAND MINING MACHINERY FOR SALE. LONDON AGENT:-ME. JOHN F. PEARSE,

6, QUEEN STREET PLACE, SOUTHWARK BRIDGE, E.C.

THE BIRMINGHAM RAILWAY CARRIAGE AND WAGON COMPANY

WAGON COMPANY
(LIMITED)

MANUFACTURE RAILWAY CARRIAGES and WAGONS of EVERY DESCRIPTION, for HIRE and SALE, by IMMEDIATE or DEFERRED PAYMENTS. They have also WAGONS FOR HIRE capable of carrying 6, 8, and
10 tens, part of which are constructed specially for shipping purposes. Wagone
in working order maintained by contract.

MANUFACRUPERS.

MANUFACTURERS also of IRONWORK, WHEELS, and AXLES. EDMUND FOWLER, Managing Director. WORKS,-SMETHWICK, BIRMINGHAM.

BICKFORD'S PATENT FOR CONVEYING CHARGE IN

SAFETY FUSE SAFETY FUSE
FIRE TO THE
BLASTING ROCKS, &c.

Obtained the PRIZE MEDALS at the "ROYAL EXHIBITION" of 1851; at the "INTERNATIONAL EXHIBITION" of 1862 and 1874, in London; at the "IMPERIAL EXPOSITION," held in Paris in 1855; at the "INTERNATIONAL EXHIBITION," in Dublin, 1865; at the "UNIVERSAL EXPOSITION," in Paris, 1867; at the "GREAT INDUSTRIAL EXHIBITION," at Altona, in 1869; TWO MEDALS at the "UNIVERSAL EXHIBITION," vienna,, in 1873; and at the "EXPOSICION NACIONAL ARGENTINA," Cordova, South America, 1872.



PICKFORD, SMITH, AND CO., of TUCKINGMILL, CORNWALL; ADELPHI BANK CHAMBERS, SOUTH JOHN STREET, LIVER-POOL; and \$85, GRACECHURCH STREET, LONDON, E.C., MANUFACTURERS AND ORIGINAL PATENTES of SAFETY FUSE, having been informed that the name of their firm has been attached to fuse not of their manufacture, beg to call the attention of the trade and public to the following announcement:—

EVERY COIL of FUSE MANUFACTURED by them has TWO SEPARATE THREADS PASSING THROUGH the COLUMN of GUNPOWDER, and BICK FORD, SMITH, AND CO. CLAIM SUCH TWO SEPARATE THREADS as THEIR TRADE MARK.

BENNETTS' SAFETY FUSE WORKS, ROSKEAR, CAMBORNE, CORNWALL.

BLASTING FUSE FOR MINING AND ENGINEERING

PURPOSES
Suitable for Wet or Dry Ground, and effective in Tropical or Polar Climates.

W. BENNETTS, having had many years' experience as Chief Engineer with Mesars. Bickford, Smith, and Co., is now enabled to offer Fuse of every variety of his own manufacture, of best quality, and at moderate prices.

Price Lists and Sample Cards may be had on application at the above address.

LONDON OFFICE—H. HUGHES, Esq., 85, GRACECHURCH STREET.

"If you have an efficient automatic cut-off valve, and an automatic steam tight piston, you are bound to have an economical engine."—Science Lecture.

NO MORE THROTTLE VALVES. NO MORE LEAKY PISTONS. NO ADDITION TO PRIME COST.

For full particulars and prices of the "TURNBULL" simple cut-off valve gear and the double-action piston packing, apply to—

JOHN TURNBULL, JUN.,

CONSULTING ENGINEER, 184, BUCHANAN STREET, GLASGOW.

LLANELLY, S. WALES,

MANUFACTURERS OF THE

Improved Solid Steel Shovels, C. S. Forks, Solid Steel Miners' Shovels, Railway and Miners' Picks, Steel-pointed Spades and Shovels, Draining and Grafting Tools, &c.

ALSO MANUFACTURERS OF

COPPER WORKS' LADLES, To which special attention is given.

RABBLE HEADS, PADDLES, AND EVERY DESCRIPTION OF LIGHT HAMMERED WORK.



READE BROTHERS,

TOWER VARNISH WORKS, NECHELLS, BIRMINGHAM. MANUFACTURERS OF

High-class Varnishes and Japan,

For COACH & RAILWAY WAGON BUILDERS, ENGINE BUILDERS, CONTRACTORS, COLLIERY and

GENERAL ENGINEERS, LAMP MANUFACTURERS, AGRICULTURAL IMPLEMENT MANUFACTURERS,

DECORATORS, &c. Lists and Samples on application.

Wheal Peever, West Peever, Wheal Boys, Wheal Prussis, North Treskerby, West Tolgus, East Pool, South Crofty, Cara Bres, Tincroft, Cook's Kitchen, Delcoath, West Brances, South Frances, West Basset, Wheal Basset, Penstruthal, Comford, South Condurrow, Tolearne, and all other adjacent and surrounding Minss in the parishes of Camborne, Illogan, Hedruth, and Gwennap.

MAP, showing the present Boundaries, &c., of the above Mines, coloured, but unmounted, for 10s. 6d., or mounted on cloth and rollers for 15s., may be had, carriage free, from the Author, R. Symons, 11, Parade, Truro, on his receipt of P. O. Order for the amount.

SPAIN AND PORTUGAL

MR. J. T. JOHNSON, Assoc. Inst. C.E., F.G.S., &c., CIVIL and MINING ENGINEER, late of Chester and South Wales, having joined by they, Mr. T. M. JOHNSON, who for the last. 13 years has been engaged fig. in Spain and Portugal, is prepared to INSPECT PROPERTIES and OUT GENERAL MINING and ENGINEERING WORKS in those ADDRESS: CORRETO DO CORVO, PORTUGAL.

JOSEPH FIRTH AND SONS' NEW

BRICK-MAKING MACHINE

EMBRACES THE FOLLOWING ADVAN-

TAGES, VIZ .:-

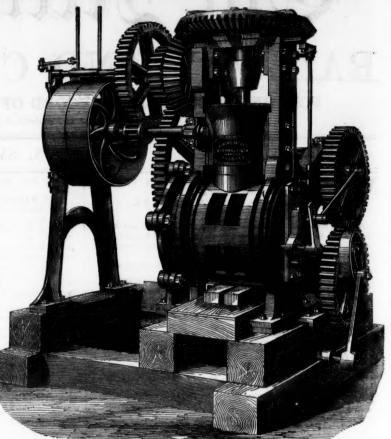
SIMPLICITY, STRENGTH, AND DURABILITY.

COMPACTNESS AND EXCELLENCE OF MECHANICAL ARRANGEMENTS.

LARGE PRODUCING CAPABILITIES.

MODERATE COST.

It makes two bricks at once, and will make 12,000 to 14,000 Plastic Pressed Bricks per day, hard enough to go direct to the Kiln without drying; or it will make the bricks thoroughly plastic if required. For Works requiring a Machine at less cost the Machine is made to turn out one brick at once, and is capable of producing 8000 bricks per day.



The Machine can be seen at work daily at the Brickworks of the Patentees, Joseph Firth and Sons, Webster Hill, Dewsbury, as also their Patent Gas Kiln for Burning Bricks, which possesses the following amongst other advantages, viz.:- Economy in Fuel, Rapidity and Quality of Work, even Distribution of Heat, and Total Consumption of Smoke.

SAMUEL DENISON & SON'S WEIGHING MACHINES

ARE THE BEST IN THE MARKET FOR

ACCURACY, DURABILITY, AND DESIGN.

SPECIALLY ADAPTED FOR COLLIERIES, MINES, IRONWORKS, BRICKWORKS, AND RAILWAYS.

SPECIALITE!!—Pit-bank Weighing Machines, with our latest improved Double Steelyard Indicator. NO LOOSE WEIGHTS. Simplest and most perfect ever brought out.

REPRESENTED IN THE MINING DISTRICTS BY

FRANCIS AND JENKINS, YEADON & CO., Albion-place, Leeds. Old Grammar School Foundry, Leeds

GRAND EXPLOSIVE COMBINED WITH PERFECT SAFETY. MINING MADE EASY-POWER without DANGER.

The Liverpool Cotton Powder and Ammunition Company's SAFETY COTTON BLASTING POWDER

Is the SAFEST, STRONGEST, and most ECONOMICAL in WORKING of all EXPLOSIVES. The MINERS, AFTER a shot is is the SAFEST, STRUMGEST, and most becombined in in the SAFEST, STRUMGEST, and SAFE in TRANSIT by boat or rail. Par excretence in every description of MINING, QUARRYING, TUNNELLING, EXCAVATING and SUBMARINE operations. Entirely free from Nitroglycerine. Offices: 39, OLD HALL STREET, LIVERPOOL. Works: MELLING, near LIVERPOOL.

AGENTS.—The Company have a few VACANCIES in the chief Mining Districts for really GOOD and thoroughly PRACTICAL MEN.
Apply to the Secretary, DAVID ANDERSON, personally, or by letter at the Offices of the Company.

WILLIAM EDWARDS AND Griffin Works, Wolverhampton,

MANUFACTURERS OF

Edge Tools, Spades and Shovels. Hand, Sledge, Stone Quarry, and Mining Hammers, Railway Contractors' and Mining Tools. Axes, Adzes, Pickaxes, Crow and Boring Bars, Wrought-iron Wheelbarrows.

The Original and Only Manufacturers of Best Crown Quality of Horse Shoes PATENTEES and MANUFACTURERS of PATENT PUNCHED EYE PICKAXES, HOES, HAMMERS, ADZES, and other TOOLS.

Under Patent No. 4698.

YEADON AND CO., LEEDS,

ENGINEERS CONTRACTORS, &c.

FOR EVERY DESCRIPTION OF PLANT FOR

Callieries, Mines, Brickworks, &c.

cin du Th

po su at ab ca us M an th be th an be ur light

Lectures on Practical Mining in Germany.

CLAUSTHAL MINING SCHOOL NOTES.* BY J. CLARK JEFFERSON, A.R.S.M., WH. SC.,

Mining Engineer, Wakefield. (Formerly Student at the Royal Bergakademie, Clausthal.) [The Author reserves the right of reproduction.]

The publication of the Lecture this week is unavoidably postponed.

* Being Notes on a Course of Lectures on Mining, delivered by Herr Bergrath Dr. Vox Groddeck, Director of the Royal Bergakademie, Clausthal, The Harz North Germany.

SOUTH STAFFORDSHIRE AND EAST WORCESTERSHIRE INSTITUTE OF MINING ENGINEERS.

The monthly meeting of members was held on Monday in the Mining Museum, Dudley,—Mr. Henry Johnson, sen. (President) in the chair; Mr. Wm. J. Hayward, Vice-President.

The minutes of the last meeting were read and confirmed.
Mr. Alexander Smith, C.E. (the secretary), read a letter from the secretary of the North Staffordshire Institute, in which the latter promised to arrange for the consideration of an application of Mr. Nelson Boyd's paper on "Masters' Liabilities," alluded to at the last meeting.
Mr. Ralph Bennett, ironmaster, Smethwick, and Mr. Alfred Bowkley, mining engineer, Coseley, were unanimously elected ordinary members.
The Secretary reported that Mr. André, the inventor of the new electric safety-lamp, had promised to read a paper and exhibit a lamp

electric safety-lamp, had promised to read a paper and exhibit a lamp at the next meeting.

at the next meeting.

The PRESIDENT announced that the opening of the New Severn Bridge below Gloucester had not yet been definitely fixed, but as soon as it was arrangements had been made by which he was to be informed of the event, and the secretary would then communicate to

In reply to the PRESIDENT, the SECRETARY said the length of the

In reply to the PRESIDENT, the SECRETARY said the length of the bridge was 4162 ft., and the river was 3558 ft. wide at that point. The SECRETARY exhibited a model of Leonardt's patent safety-cage and apparatus for preventing overwinding. It can be seen at Lord Dudley's No. 30 Pit, near Cradley Station.

Hearty votes of thanks were given to Mr. Keeling, the engineer of the New Severn Bridge, for a lithograph of the structure; to Mr. Thomas Brettell, for a detailed plan of the Corngreaves Works, made by the President in his second year of apprenticeship; and to Mr. Thomas Parton, for two photographs of Winstanley and Barker's coalcutting machine. Mr. Doody's plan of the Shropshire coal field was examined, and the President showed a horse-shoe embedded in a piece of poplar.

examined, and the President showed a horse-shoe embedded in a piece of poplar.

Mr. W. Davey, photographer, exhibited a photograph showing the Thick coal, and a group of members with Lord Shrewsbury and his party, at Lord Dudley's Clay Croft Openworks, and presented the Institute with a copy, for which a vote of thanks was accorded Mr. Davey.

ELECTRIC LIGHT-THE LONTIN SYSTEM

It has long been acknowledged by electricians that for brilliancy and reliability the Serrin lamp left little to be desired, and it seems that that little has now been supplied in the Lontin, which is one step forward in the development of the same system. On Monday evening a number of scientific gentlemen and electricians met at the Three Nuns Hotel, adjoining the Metropolitan Railway, Aldgate, to hear, previously to examining the light in use on that line, an account of the progress made in perfecting the Lontin apparatus. The Lontin light has for some time past been and still is in successful use in Paris, and is not unknown to the inhabitants of and visitors to London, being that which was for some time exhibited in the Strand during last is not unknown to the inhabitants of and visitors to London, being that which was for some time exhibited in the Strand during last winter by Mr. John Hollingshead, of the Gaiety Theatre. Since that time, many little imperfections noticed by those interested have been remedied, and eight lamps are now in use at the Aldersgate-street Station of the Metropolitan Railway. At the meeting in question, the chair was occupied by Mr. Myles Fenton, the general manager of that line, and Mr. G. P. Harding, who first introduced the light into this country, and in whose workshops at Paris the machinery is at present constructed having explained the details of the improvements which had been introduced since the system was first brought before the public, there was an interesting discussion, in which Mr. W. Crookes, F.R.S., Mr. Tominson, the engineer of the Metropolitan Railway, and others took part. The opinion was without exception favourable to the quality and efficiency of the Lontin lamp, but some fear was expressed that the present high price would probably limit its application.

fear was expressed that the present high price would probably limit its application.

The economy of the system was ably maintained by Mr. Bernard Godfrey, the engineer of the Lontin Light Electric Generator and Light Company, who by the aid of samples of the various forms of the lamp showed very clearly the progress made up to the present time. He explained that the first cost of the lamp was really less important than at first sight appeared, owing to the small number of electric lamps required for a given space and their durability, but to meet this popular objection efforts were still being made, and he hoped before long they would have a lamp in which the clockwork was entirely dispensed with, the result of which would be that even in first cost the Lontin would compare favourably with any lamp known. It is but nine months since the first practical application of the electric light for public illumination was initiated in London with the Lontin system at the Gaiety Theatre, and it has already, in spite of the indiscretion of over-sanguine projectors and the detraction of opponents, become admittedly a method of lighting which public bodies have to reckon with, being alone adapted, on the score of power, salubrity, cleanliness, and economy, under its present improved and improving conditions, to satisfy certain large special requirements. It is to meet these special wants that the above company has acquired the only complete system of lighting which now exists. In fact, without in any way depreciating the brilliant results obtained by other inventions, it may be fairly stated that, whilst one company deals with a machine of which the subdivision is limited, and another company with the utilisation of a burner or candle, each having its special feature and being dependent on others for the rest, this company holds not only the Lontin generator, but also the regulators, lamps, and methods of subdivision which enable it to supply from its own resources a complete and practical system of lighting which is neith

own resources a complete and practical system of lighting which is neither disagreeable in colour nor painful to the eye.

It was claimed for the Lontin light that it has decided advantages over its rivals in steadiness, in divisibility, and in economy, the cost of the Lontin being 3d. as compared with 5½d. for the next cheapest light. The illumination of the Aldersgate-street Station on Monday contagras brilliont in every part although but eight large were evening was brilliant in every part although but eight lamps were used to light the whole of the platforms. The lamps were on four circuits, and the currents were supplied from a Lontin generator producing alternate currents and making only 400 revolutions per minute. The motive-power was obtained from a Fowler's semi-portable compound engine, high pressure cylinder 9 in. diameter, and low pressure 16 in. diameter, with about a 14-in. stroke. The steam was used sure 16 in. diameter, with about a 14-in. stroke. The steam was used at 112 lbs, pressure on the square inch, and the engine was making about 130 revolutions per minute. From these data practical men can calculate approximately the number of indicated horse power used. It is intended with the same machinery to illuminate the Moorgate-Street and Farringdon Stations also, which will be a severe and conclusive test of the efficiency of the system. It is stated that the light may be divided very greatly. As many as twelve lights have been placed in one circuit. It has been shown practically that by this machine it is possible to give a larger number of small lights; and so far as experience has hitherto gone, whatever loss there may be in illuminating power is much more than compensated by the convenience of so complete a distribution; however, curiously enough, up to a point which at present appears to be between four and six up to a point which at present appears to be between four and six lights on a circuit, a positive gain is obtained by division. These experiments are not yet completed. A machine constructed nominally for twelve lights (which would mean twelve lights of 600 candlespower each), may be arranged to produce 48 lights, should the nature

of its application make such division desirable. The various patents which are the property of this company include special regulators and lamps, as well as special materials for cables and insulation, so that the whole apparatus necessary for the purposes of electric lighting used in this system is to a great extent peculiar to itself, and constructed under its own direction and control. The experiments on Monday evening were in every respect satisfactory, and promise much for the future of the light.

ATMOSPHERIC HAULAGE IN MINES.

ATMOSPHERIC HAULAGE IN MINES.

At the Hottinguer shaft of the Epinac Collieries (Saone et Loire) a system of raising minerals, some time since patented by Mr. Archibald Alison, an old correspondent of the Mining Journal, has been introduced. The shaft is to be 3279 ft., of which about two-thirds has at present been sunk. The coal trams to the number of nine, are placed one above the other in a cage, which is provided at each end with a piston, working in a large tube reaching the whole depth of the shaft. The cage is raised or lowered by creating a partial vacuum or a plenum above the piston by means of a powerful air-pump. The arrangement consists of either a single tube, in which a cage alternately rises and descends, or of two tubes, coupled together, in one of which a train of empty trams descends while a full tram is being raised in the other. When two tubes are used the air pumped from that in which the full train is being lifted is delivered into the other, in which the empty train is descending, and in which there is already a partial vacuum, instead of into the atmosphere, and the weights of the trains thus balance each other, the net load of coal only having to be raised by the engine. The air of the mine, which fills the lower part of the tube as the train rises, is blown out to the surface through an escape pipe as it descends, and the ventilation is thus to some extent assisted.

The cage is retained in any position by stops worked from the outside, and is readily lowered or raised at the stations to bring any

tent assisted.

The cage is retained in any position by stops worked from the outside, and is readily lowered or raised at the stations to bring any trains opposite to the doors, by admitting air over it, or by opening a communication between the tube above it and the exhausting engine. The cage is stopped without shock, at the ends of its travel by the cushion of air in the closed ends of the tube; and to admit of stopping at intermediate levels, as well as to guard against accidents, a sliding partition is fitted in the tube immediately below each station, except that at the bottom, which is open so long as the cage is below, but is closed when it has passed. The position of the cage, with its pistons, during the ascent or descent, is indicated in the engine-house by a series of barometers showing the pressure of air in the tube at points 100 meters (109 yards) apart. As the pressure below the cage is equal to that of the atmosphere, while a partial vacuum is maintained above it, the barometers show at once whether the cage is above or below the point at which each of them is connected to the tube. To allow the pistons attached to the cage to fit the tube, even above or below the point at which each of them is connected to the tube. To allow the pistons attached to the cage to fit the tube, even where this is not cylindrical, as at the doors, one of them, that above it, is made double, consisting or two pistons spaced at a distance apart greater than the height of a door, but less than the length of tube between two doors. The pistons are packed with leather, and the tube is lubricated with water mixed with a little soap and oil. It is estimated that the consumption of coal for the boilers of the winding engine, in lifting from a depth of 1000 meters (1093-6 yards), would be 10 per cent. of the quantity raised if ropes were used, but will be only 3 per cent. by the pneumatic system, even with a single tube. This is a saving of 145 lbs. of coal per ton of coal lifted, equal to 6-6d, per ton, valuing the coal used for the boilers at 8s. per ton. With an output of 450 tons per day, and reckoning 280 working days in the year, this is equal to an economy of 3528t. per year, in boiler coal alone.

WROUGHT-IRON RAILWAY AXLES.—At the Society of Engineers, meeting, on Monday (Mr. R. P. Spice, president, in the chair), a paper was read by Mr. Thomas Andrews, "On the Strength of Wrought-Iron Railway Axles." In introducing the subject the author gave a brief historic sketch of the Wortley Ironworks, Sheffield, at which works some of the first railway axles used at the commencement of the railway system were made, and, as an interesting fact, he mentioned that these works were supposed to have been established at the time of the Roman conquest. He then proceeded to enumerate a series of practical experiments which he had conducted with a view of showing the great resistance which the best fagotted scrap axles are capable of offering to sudden strains, and considered at some length the question of iron versus steel as a material for axles. The length the question of iron versus steel as a material for axles. The chief standard tests employed by railway companies and engineers were then given, and their relative merits pointed out. Then folwere then given, and their relative merits pointed out. Then followed an account of a large number of experiments on axles manufactured by the author to comply with the various tests. These results tended to show that in some cases the deflection of the axles became less as the number of blows to which they were subjected increased, which it was thought might be due to the heavy blows having a tendency to alter the molecular structure of the iron, and render it more crystalline. From various other experiments which were given it was shown that the actual existing quality and real tensile endurance of an axle might be misjudged, and wrong conclusions formed as to its quality, by solely relying on a falling weight test. The author strongly advocated one uniform test for axles, and thought that in any correct process of axle testing the amount of testing force actually applied should be measurable, and bear some relative proportion to the greatest amount of shocks to which an axle was likely to be subjected in actual working, and suggested that it would be desirable to obtain by accurate experiments an approximate estimate of the work done by the axle in ordinary working, and to arrange some test which could be universally agreed upon.

MINERS' SAFETY LAMPS .- The invention of Mr. A. HOWAT, of Manchester, consists in admitting the air to support combustion through tubes or apertures in the lower part of the lamp or oil chamber, of such diameter and length as to prevent the flame passing out of the lamp. The upper portion of lamps of the usual construction is made of wire gauze through which the gas in some cases is driven, thus causing explosions. Now, he makes the upper portion of the lamps of a number of tubes or flues through which no flame can be forced, equently when his improved lamp is used there is no danger of

explosion.

SPONTANEOUS COMBUSTION OF COAL.—In compliance with an order of the House of Commons, the copy of a circular letter addressed by the Board of Trade to coalowners, shippers, and charterers, with regard to the character and number of casualties arising from the spontaneous combustion of coal, or from the explosion of coal gas on board ship, has been issued. It is accompanied with a précis of the replies received thereto, on which Mr. Gray, Assistant-Secretary to the Marine Department of the Board of Trade, has made the following comments:—The results of the foregoing clearly indicate the lowing comments:—The results of the foregoing clearly indicate that the simple and efficacious measures for preventing explosions recommended by the Royal Commissioners appointed to enquire into explosions and spontaneous combustion on board coal-laden ships are either insufficiently known to or recklessly disregared by the persons chiefly interested in the safe carriage of coal by sea. A copy of the conclusions arrived at by the Royal Commissioners is, therefore, appended:—"1. That certain descriptions of coal are intrinsically dangerous for shipment on long voyages.—2. That the breakage of coal in its transport from the pit to the ship's hold, the shipment of pyritic coal in a wet condition, and especially ventilation through the lowing comments:—The results of the foregoing clearly indicate that in its transport from the pit to the ship's hold, the shipment of pyritic coal in a wet condition, and especially ventilation through the body of coal cargoes, conduce to spontaneous combustion, even though the coal may not be unfit for conveyance on long voyages.—3. That spontaneous combustion in coal cargoes would be less frequent if regard were had by shipowners and underwriters to these facts.—4. That when coal is being carried on long voyages, the temperature in the various portions of the cargo should be tested periodically by thermometer and registered in the log.—5. That with a view to guard against explosion, free and continuous egress to the upon air, independently of the hatchways, should be provided for the explosive gases by means of a system of surface ventilation which would be effective in all circumstances of weather.—6. That in order to make known the descriptions of coal liable to combustion, the Inspectors of mines should be instructed to hold enquiry into all cases of spon-

taneous combustion occurring in cargoes of coat taken from their respective districts, exporters being required always to record on their specifications the denomination of the coals forming the cargo.—7. That ne additional legislation with reference to the conveyance of coal by sea is required, unless for the purpose of giving effect to our proposals with regard to the enquiries by Inspectors of Mines, and to the fuller specification of coal entered outwards at Her Majesty's Customs."

SOUND INVESTMENTS.

After a long and unprecedented time of depression the Stock Markets exhibit a decided tendency to revival. It is thought by some that this advance in values is unjustifiable, but I do not share this opinion. It must be remembered that for nearly two years there has been a total want of confidence, those who had surphis funds preferring to allow them to remain idle rather than employ them in the purchase of any securities outside the range of consols, debentures, &c. As during this period no new outlets for the employment of capital have been created, it is not surprising that the effect of purchases upon stocks and shares long neglected, but intrinsically sound, is all the more marked.

&c. As during this period no new outlets for the employment of capital have been created, it is not surprising that the effect of purchases upon stocks and shares long neglected, but intrinsically sound, is all the more marked.

CANADIAN RAILWAYS—THE GREAT WESTERN OF CANADA.—The meeting of shareholders held last week was unusually interesting. A special report had been issued by the directors in which it was set forth that it was absolutely necessary they should have the full confidence of their proprietors, and they made an appeal for proxies in support of their views, basing their principal claim thereto upon a speech delivered by the Right Hon. Maph C. E. Childers, M.P. (the late President) in 1876, denouncing as suicidal any fusion or working agreement with the Grand Trunk Company.

To the astonishment of everyone at the meeting (the board included) the late President told the proprietors that the views he had expressed in 1876 had undergone a complete change in 1879. On such an expression of opinion from an authority, it was quite clear the directors would have been totally outvoted by all those who listened to this interesting conversion, as the board could not have dared to use the proxies of absent shareholders which had been mainly given on the faith of a speech delivered by Mr. Childers, who then publicly announced that he had changed his views.

With strange inconsistency, however, he denounced any "agitation" in opposition to the board with whose policy he had previously confessed, as an "honourable man," he was bound to differ. For the present, therefore, the directors are presumed to have the confidence of their shareholders, and nothing further can be done until the return from Canada of the three members of the board, when the financial position of the company, together with the proposed new alliances, will be made known. There is no doubt that with the general improvement in Canadian affairs the shareholders have a valuable property, which, if administered by men of ability and foresight, would

These figures show that there is a handsome margin of profit for those who can buy now and hold.

There are three separate classes of investors (distinct from speculators) to whom these securities will be specially attractive at the present moment, via. ——

1.—Those to whom income is absolutely essential, who may, therefore, safety purchase the Five per Cent. Debentures at 87 with three months' dividend accrued, payable in January, yielding at the present price 5% per cent.

2.—Those who can afford to buy the three Preference Stocks with the certainty of receiving a good dividend on the First Preference in the spring of next year, and which will be so much in advance of recent years as to raise the value of the Second and Third Preferences.

3.—To the third class of investor the Ordinary Stock will be attractive. It is a "speculation" pure and simple; but when it is remembered that the price of 1001. Stock is 94., 1000. Stock 904., and that 10,0004. nominal Stock can be prichased for 9002, there is a large margin for an increase in capital value, as the Ordinary Stock must advance concurrently with the rise in the Preferences. It 1873, 7,500,0004. of this very Stock was issued at 224. 10s., and at that time the prospects of the line were nothing like so good as they are to-day. The whole of this money was expended in narrow gauging and relaying the line with steel rails, and also in the purchase of additional rolling-stock. To this far-sighted policy the present good position and increased earning capacity of the road is mainly due.

ralls, and also in the purchase or and increased earning capacity of the road is mainly due.

It may be urged that the reversionary value of the Grand Trunk Railway, as represented by the ordinary stock, is undefinable, but it is only last year that the shares of that mysterious Erie Railway were at the same quotation as Grand Trunk ordinary stock is now, and yet they are to-day worth 42. The Grand Trunk Company does publish properly audited and intelligible belance-sheets, which serve as a guide for estimating the value of the property, whereas the Erie Railway does not.

An impression has for some time prevailed that the liquidators of the City of Glasgow Bank, and the failed firms in connection therewith, were large holders of Grand Trunk securities, and were waiting for an opportunity to realise. I am in a position to state positively that this is not the case, all such holdings having long since been disposed of and absorbed by a large number of bona fide investors.

I have very little doubt that before the close of this year all Grand Trunk securities will exhibit a considerable advance upon present prices, as, in addition to the favourable features above enumerated, I am pleased to be able to state that there is a prospect of improvement in rates almost immediately, as a commission organised by the great American railways is now engaged in discussing the question.

there is a prospect of improvement in rates almost immediately, as a commission organised by the great American railways is now engaged in discussing the question.

LONDON, CHATHAM, AND DOVER RAILWAY.—In order to account for some large purchases of the stocks of this railway during the past month, the absurd rumour was revived that it was in contemplation to apply to Parliament for power to construct a line from Beckenham to Brighton. This is an old device which has done duty on previous occasions in order to depress the quotasions for Brighton stocks when they have shown a tendency to advance. By this time it ought to be well known that the three southern lines are bound by mutual agreements not to enter into any new competitive schemes. The fact is the buying of Chatham and Dover stocks continues to be of a bose fide and non-speculative character being based upon the merits of the line, which may be summarised as follows:—The wonderful development of the suburban traffic which will be further increased on the widening of the line to Bickley, the growing popularity of the Flushing route evinced by the fact that the Dutch Government have ordered a new steamer for the service, the marked success of the "Caligan and the fact that after this month the traffic receipts will compare with the period when the Paris Exhibition was closed. It is also remembered that for the first time in the history of this company the preference dividend will be pald half-yearly in February next.

TRAMWAYS.—A change for the better seems to be dawning upon the tramway market, and, as is generally the case, the shares of the large companies are the first to move. Thus North Metropolitan, Liverpool, and Dublin shares have been freely bought, and, in my opinion, there is ample justification for the improvement. The advance recorded will, no doubt, stimulate buying of the smaller shares, which as yet have not shown much animation. During the holiday period, when the markets were very stagnant, the passing of the Sil suthering the success of

tramways by the Tramsways Traction Company has now actually commenced, and it is only a question of time for English companies to adopt the same system, and thus effect large savings in working expenses to the enhancement of dividends. The prospect of this will, no doubt, increase the value of all tramway property, and, therefore, purchases should not be delayed.

LiveRPOOL TRAMWAYS—As I always regard it a duty to carefully watch the progress of any company the shares of which I may have recommended for investment, I felt a special obligation to the proprietors of this company, as being the first tramway with which I was intimately associated, to address them during the past month at a moment when rumours were industriously circulated that a crisis in their affairs was imminent. The circular was evidently opportune, as it had the effect of checking further serifice of property by timid holders who were ignorant of the true circumstances of the case. A meeting has been called for the 21st. inst., which I shall certainly attend, as it is just possible important business may be transacted at it, and as representing some large interests I shall, if I find it necessary, invite the shareholders to favour me with their proxies, and they may rest assured I shall only support that policy which will be for the best interests of the company.

TRAMWAYS AND GENERAL WORKS COMPANY.—The managing director of this prosperous undertaking has just returned from Borieaus, having made the necessary preliminary agreement for taking over the whole of the property of the Omnibus Company. Under the concession which has been secured direct from the municipality, the exclusive right is given to work transways and omnibusiese capacity which has always distinguished the directors of this company, they decided to call in the services of Mr. A. G. Church, the managing director of the Londonf General Ornibus Company, and with such a skilled adviser in need not be a matter of surprise that the purchase has been expeditiously effected. In the do

will, in my opinion, develope into high class investments. I have visited both districts, and have confidence in recommending investments in the shares of the respective companies. The Tramways and General Works Company will first consider their own shareholders who are registered on their books at the time of issue, so that they will participate not only in the profit derived from these important works, but also in the allotment of shares, for which there is likely to be an active local demand, the French and Italians being keenly alive at the present time to this class of investment. The shares of the Tramways and General Works pay 7t. 13s. 10d. per cent. to present investors, and are, therefore, well worth buying.

Works pay 7t. 13s. 10d. per cent. to present investors, and are, therefore, wentworth buying.

MEXICAN RAILWAY.—This company has been steadily improving during the past two or three years in sympathy with the more settled state of the country. The ordinary shares (20. each, fully paid) at the present quotation of 2t. 10s. (equal to 12t. 10s. for 100t. stock) are well worthy of attention. I hope to be in a position to give more detailed information as to the position and prospects of this railway in my next circular, mea: while a judicious selection of the securities will prove remunerative.

VARNA RAILWAY.—The omission to mention this railway in my last circular called forth some comment, having preyiously recommended the purchase of the obligations at 5½. Holders may rest absured I had good reasons for my silence, as I did not consider it politic to refer to the subject as the negociation had reached a special stage when it would be unwise to do so. My advice to those who bought at cheap prices is not to be tempted by the present advanced quotations for securing a profit. tions for securing a profit.

— From Mr. Wm. Abbott's Circular for October, 10, Tokenhouse-yard, London

Meetings of Public Companies.

DERWENT LEAD MINING AND SMELTING COMPANY.

offices of the company, Austinfriars, on Wednesday,
Mr. William Edwards in the chair.
Mr. J. H. A. Smith (the secretary) read the notice calling the meeting; the report of the directors and also the agent's report and the accounts, which had been circulated amongst the shareholders, were taken as read.

The CHARMAN said: Gentlemen, L will say a few words men the

The CHAIRMAN said: Gentlemen, I will say a few words upon the The CHAIRMAN said: Gentlemen, I will say a few words upon the affairs of the company, and also make some remarks upon what is stated in the report. In the first place, I may say that, like all other lead mining companies, this company has suffered most materially from several causes. First of all there was an accident (which is named in the report), which happened to the mine some time in the early part of the present year, causing great loss of time and also loss of money to the company. It was a matter which caused both the manager, Mr. Morpeth, and the directors a great deal of anxiety, for it happened at a time when we were looking forward to an important epoch in the history of the company—the meeting of the two points of money to the company. It was a matter which caused both the manager, Mr. Morpeth, and the directors a great deal of anxiety, for it happened at a time when we were looking forward to an important epoch in the history of the company—the meeting of the two points which we have been so anxious to accomplish in the 3. At the very time that we thought we were accomplishing a very desirable and very great piece of work this sad accident happened in the shaft, which caused the water to rise, and we had to repair the shaft and also get the water out, which took three months to accomplish, and during that time the operations were almost at a standstill, thereby causing great loss of time and money to the company. I am glad to say that that is entirely repaired now, and the mine is in a better position than at any time during the existence of the present proprietary. The report of Captain Morpeth to the effect that the returns are increased by something like 50 per cent. is a very satisfactory point in our calculations, and will, I have no doubt if lead maintains anything like a proportional and reasonable price, add very much to the benefit of this company—in fact, unless lead realises a fair price it will be almost labour in vain on the part of the directors to make this concern what they would wish it to be—a paying concern for them, and one which would be remunerative to the investors of the capital in the undertaking. There is one very important matter which the directors will have to decide to-day. It is the suggestion of the directors to borrow a sum of money to complete the purchase of the freehold of the mines on this estate. It is considered that it will be a very great advantage to the company to carry out this proposition, which is part and parcel of the arrangement with the original shareholders—that the freehold of the mine shall be purchased, thereby reducing the rent charge by about 400%. A year. It will be a very important matter, because it will leave the company untrammelled with payments which almo

The SECRETARY: And even with that we should not have sufficient to buy the factor and the sum of th

require all the 10,000L, as probably 8000L would be ample, but he hoped it would be raised in the way suggested in the notice which had been circulated. The resolution was then put and carried unanimously.

The CHAIRMAN said he might mention that the directors, and the secretary especially, had paid frequent visits to the mine, so that everything had been well looked after.

The SECRETARY said it might be interesting to the shareholders to know that at the last month's sale there was an increase in the price equal to 5 per cent, and the mine was now paying costs. The low price of lead had prevented a large number of points from being worked which would otherwise have been in operation.

mr. DAUKES also pointed out that independent of the low price of lead season had been most unfavourable, and rendered it extremely difficult to get

large number of points from being worked which would otherwise have been in operation.

Mr. DAUKES also pointed out that independent of the low price of lead the season had been most unfavourable, and rendered it extremely difficult to get the coals up to the mine.

Mr. KERIY said he had recently seen Mr. John Taylor, of the firm of Messrs.

John Taylor and Sons, who was many years connected with the mines. Mr. Taylor had now 1000½ in the company, and stated that his faith in it was as great now as ever it was, and believed it to be a very fine property, and one which would prove remunerative. Mr. Taylor seemed pleased with what had been done, and with the prospects of the mine, and had offered to go down if required, and report to the directors.

The CHARISMAN said he might mention that at the board meeting just held the directors had decided to request Mr. Taylor to go down and inspect and report upon the mine. Before the meeting separated he wished to propose a cordial vote of thanks to their excellent secretary, who had been down to the mine in the worst of weather, and had shown himself most indefatigable in his endeavours to forward in every way the welfare of the company. He hoped it would be a long time before they lost the services of Mr. Smith, and he could only say that if the mine became a success, which he hoped and believed it would, it would be very much owing to the value of the services rendered by Mr. Smith.

Mr. HALES seconded the resolution, and said he fully endorsed all the Chairman had said regarding the value of the services rendered by Mr. Smith.

The CHAIRMAN then proposed a vote of thanks to their excellent manager—Capt. Morpeth—who had the interest of the company so much at heart. Since he had been Chairman of the company he had gone down every year to the mine, and had always found Capt. Morpeth anxious to promote the interest of the company in every possible way. Capt. Morpeth was a thoroughly practical and trustworthy man; and not only was he known and esteemed in connection with

CARN BREA MINING COMPANY.

A four-monthly meeting of shareholders was held at the mine on Monday, under the presidency of Captain TEAGUE (the purser and manager), who expressed the pleasure it afforded him to meet the adventurers that day under improved circumstances, not that the mine had done much, but because there was a prospect of tin still further advancing in price. The accounts for the four months showed that the balance now against the adventurers stands at 12 516L 3s. 1d. that the balance now against the adventurers stands at 12,5161. 3s. 1d.,

instead of 19,233. as at the last meeting.

Capt. W. TEAGUE, jun., next read the agents' report, which stated that the eastern part of the mine was improving, two of the points in that direction being valued at 60, per fathom each, and two or three others at from 25t. 05t. per fathom each. The bottom part of the mine, about Teague's shaft opens up well.

35f. per fatnom each. The bottom part of the upwell.

Mr. Hrand asked whether any provision had been made in regard to the banker's balance, to which the Chairman replied in the negative. —Mr. Hrand then suggested that at the next meeting the Chairman might see the propriety of making a small call to reduce the balance against the adventurers.

The Chairman said he did not object to doing this, but he intimated that he would see how they stood by that time. The increased price of tin would, no doubt, considerably assist them, and it might not be necessary to make a call under those circumstances.

ETHE CHAIRMAN SAID HE did not object to doing this, but he intimated that he would see how they stood by that time. The increased price of tin would, no doubt, considerably assist them, and it might not be necessary to make a call under those circumstances.

Mr. HINGSTON, of Liskeard, wanted to know whether the Chairman thought the mine was likely to come to their assistance in paying off the debt against them, and the CHAIRMAN repiled that his own conviction was—and he should be very much decelved if he were not correct—that instead of a profit of something over 500L, they would make a profit of over 100L between this and the next meeting. It might be 200L: he could not tell. He thought, therefore, with that prospect before them that it would be premature to make a call.

The CHAIRMAN then proposed the adoption of the accounts and agents' report, and proposed that a moiety of the banking account be removed to the Cornish Bank Company (Limited), and the resolutions were carried unanimously.

Mr. HEARD observed that he thought the adventurers had cause to congratulate themselves that the accounts of the mine were kept as straight as they possibly could be. He believe the right principle had been adopted there,—that every farthing had been charged that could be. (Applause).

The CHAIRMAN stated that he had a little information to impart to the shareholders which would interest them. The Dutch Finance Minister had stated that in consequence of a falling-off in the amount of Banca tin, the amount sold in 1880 would be 60,000 piculs—asy, 120,000 slabs in six sales as usual. The five sales his year had made 112,600 slabs, and if the sixth sale was 22,000 to 23,000, it would make a total of 135,000 slabs, so that the falling-off would be about 15,000 slabs, or from about 450 to 500 tons.

The CHAIRMAN remarked that at the last meeting he intimated that one of the stamps was out of order, and since then it had been idle for nearly three weeks, or they would have had a much better account than they had that day. They wo

TINCROFT MINING COMPANY.

TINCROFT MINING COMPANY.

A four-monthly meeting of adventurers was held at the mine on Monday, Captain Teagure presiding. The accounts for the sixteen weeks showed that the balance now against the adventurers is 67304, instead of 90204, as at the last meeting.

The Chairman remarked that, with regard to the small profit (2664, 15s. 10d.) shown that day, they had unfortunately had a very bad "cripsh" in the mine—so much so that the best of their stopes had not been worked for over six weeks. Moreover, there was more than 1004, charged in the merchants bills than was usual. A large number of men had been engaged in securing the "crush," so there was fair reason to expect that the profit shown at their next meeting would be considerably in excess of the profit of the past four months. He had calculated that the profit this time would have been about 15002, but he consoled himself with the thought that the tin was still underground, and it was better to cry over it than to weep after it. (Laughter.)

Mr. Hingston, in proposing a vote of thanks to Capt. Teague and the agents, and it would not do to part without a word of encouragement to those gentlemen. He had been in that mine in palmy days and in times of depression, and he trusted they had once more entered upon a course that would relieve them that dallen upon Capt. Capt. He thought the greatest amount of anxiety had had in upon Capt. Capt. He thought the greatest amount of anxiety had he was all do for his sake that they were pulling through as well as they were. One important thing in connection with improving trade was that all the metals were improving, and there seemed to be such a revival of trade as was not likely to be evanescent, and he trusted that the advances they had had in the metal ton, but that was an illusion that had been dispersed by adversity, and he was good for his sake that they were pulled the greatest and the condition of the produced at 504. at the history of the mine up to the present time. He supposed there was not a much more abuse

out good, and coming to the assistance of the adventurers, they would have been in a far worse position than they were that day. He did not think established mines ever looked better than now, and it was true that all through the depression they had turned out in a wonderful manner. They could not do much worse, and must do a great deal better. Any promises he had made had generally been realised. He had never misled them; he was not a prophet; he did make mistakes, but he was responsible for the utterances he made. They would do better in Tincroft for the next four months than they had in the past six months. Their balance was a very small one indeed, and had it not been for the accident in the mine they would have been in a better position that day. In speaking on the revival of trade, Capt. Feague said they were not raising so much tin in Cornwall as formerly. There was something like 800 tons up to the present time short of what there was in the corresponding period last year, so that the falling off was considerable. In conclusion, he thanked the gentleman who proposed the vote of thanks, and expressed the hope that they would meet next time under more favourable auspices.

EAST POOL MINING COMPANY

EAST POOL MINING COMPANY

A three-monthly meeting of adventurers was held at the mine on Tuesday. Mr. R. R. Broad (the Chairman) said it gave him great satisfaction to meet the adventurers that day for several reasons, the principal one being the advantageous position of the mine. Another was that they intended to pay a dividend which was considerably above any they had paid, even when tin was at its highest price. (Applause.) The report was a most satisfactory one, showing, as it did, the great value of their property, which never looked better than at present. The accounts were charged up to the end of August. They had not sold a pennyworth of thin in the stone—nothing but tin ore, which showed a profit on the 12 weeks working of 34040. 5s. 7d., to which must be added the balance from last account of 4422. 9s. 8d., making a total of 38822. 15s. 3d. to be dealt with at the meeting. The committee proposed to charge all merchants' bills, &c., up to the end of August, which amounted to 9594. 2s. 7d., and to declare a dividend of 9s. per share, which would leave a balance in hand of 431. 12s. 3d.

The CHAIRMAN proposed the adoption of the accounts and agents' report, which was seconded by Mr. G. A. Michell, and carried unanimously.

The CHAIRMAN proposed a vote of thanks to the agents for the energetic manner in which they had carried out their duties during the past 12 weeks, which was carried with applause.—Capt. MAYNARD, in returning thanks, remarked that he did not know of anything beyond what was stated in the report, which was truthful in every particular. His opinion was stated in the report, which was truthful in every particular. His opinion was that it was going to continue for a very long time, and he thought it was looking as well as ever it looked.

Capt. Bishop also thanked the adventurers for the vote of thanks, and observed that the mine never looked better than now.

Capt. A. T. James asked the purser whether they had sold so much tin as they had sampled, and Mr. MARTYN replied that they sent to t

SOUTH CROFTY.—A special meeting of shareholders was held on Tuesday, under the presidency of Mr. H. J. Lean (the purser). The shares which were under consideration at the last meeting were forfeited. The shares were increased to 2043. Capt. Thomas reported feited. The shares were increased to 2043. Capt. Thomas reported that the lode in the 205 was still looking very well, and worth fully 25t. a fathom. A new boring-machine, which was ordered at the last meeting, has been put to work, and was making good progress. In the 160 they were not doing anything at present. Mr. Rodd said there had been a statement circulated to the effect that there had been an encroachment on East Pool by South Crofty, but this Capt. Thomas denied, and said they had been working on a large scale map Mr. Henderson made for them some years ago, and he was quite satisfied that they had not gone beyond their boundary. Even supposing they had gone 8 or 9 ft., the workings there were exceedingly small, and they did not encroach anything like East Pool did on South Crofty some years ago, which they settled privately. On the motion of Mr. Rodd, the salary of Capt. Pasco was increased two guiness a month, as was also the purser's salary, and Capt. Thomas's was increased two-and-a-half guiness a month.

ALAMILLOS COMPANY.

The meeting of shareholders will be held on Thursday, when the

The meeting of shareholders will be held on Thursday, when the following report from the directors will be read:—
It is with some satisfaction that the directors are able to report that a profit has resulted on the company's operations for the past half-year. The amount although small (2761. 14s. 9d.) is so far encouraging that it indicates the power of the mines to produce ores without loss, even at the extremely low prices for lead which have lately been ruling, and seeing that a loss of 5411. 14s. 8d. was sustained on the previous six months working there is every reason to believe that with a moderate rise in the price of lead satisfactory profits will again be made.

The company's mining prospects are more encouraging than they have been for some time past. Since the last general meeting the lode has been intersected at the 115, the deepest point reached, and the lode is found to be more productive and of a better character there than it was at the 100, although it may be remembered that at the 100 the lode was better than at the 85. It would thus appear that the influence of the slide which so greatly affected the lode in the principal part of the mines at the 60, 70, and 85 is passing away, thereby giving promise that as first worked from Magdalena shaft.

The raisings of ore during the half-year have averaged 199 tons per month, and the reserves are still estimated at 2500 tons. The smelting of the ore, the carriage of lead to the ports, and the shipments have been conducted with the usual regularity, and the company's produce when brought to England always meets will a ready sale. Prices of lead have ranged very low during the past six months, the advance which occurred in March not having been sustained. There was an improved demand for lead during the month of August, leading to higher quotations, and these are still maintained.

The profit now shown of 2764. 14s. 9d. reduces the debit balance of the profit and loss account to 2064. 0s. 9d., and the directors hope that in six months hence this advers

FORTUNA COMPANY.

The meeting of shareholders will be held on Thursday, when the

The meeting of shareholders will be held on Thursday, when the following report from the directors will be read:—
The directors congratulate the shareholders on the fact that the company's operations have been carried on with some profit, at a period when a lower average price has ruled for lead than at any time since the formation of the company. This result is the more satisfactory as the mines at the present time are capable of producing as large a quantity of ore monthly as for many years past. The greatest economy compatible with the efficient working of the mines and maintenance of plant has continued to be exercised. The raisings during the past half-year have averaged 354 tons of lead ore per month, and the levels both at Cannda Incosa and Saildos are still productive at the greatest depths yet reached. The estimated reserves of ore continue at \$500 tons.

In accordance with the resolution passed at the last general meeting, the sum of 5000t, has been set apart out of the reserve fund for the purchase and working of new mines in Spain. The directors have now to report that they have already secured two mining proporties in the vicinity of the company's mines, which they believe to be very valuable. The purchase-money will amount to about 1300t. Operations have been commenced in one of these mines, and will be vigorously proceeded with.

There is no feature of interest to dwell upon in regard to the smelting operations.

Operations have been commenced in one of these limites, and will be vigorously proceeded with.

There is no feature of interest to dwell upon in regard to the smelting operations or the transport; both continue to be carried on with regularity. There has lately been some activity in the lead market, in common with that for other metals, and should trade revive a further advance may reasonably be looked for. The profit for the past six months has amounted to 18014. 0s. 2d., being slightly better than for the previous half-year. The audited accounts show that the balance standing to the credit of the profit and loss account on June 30 last amounted to 2065. 18s. 7d.; out of this a dividend of 1s. 8d, per share has been declared, pavable on Oct. 4 = 1875.; placed to reserve fund, 934. 18s.; total, 1862. 15s., the balance to be carried to the next account being 97t. 3s. 7d.

LINARES LEAD MINING COMPANY.

The meeting of shareholders will be held on Thursday, when the

The meeting of shareholders will be held on Thursday, when the following report from the directors will be read:—
The progress of the company's operations in Spain during the past half-year has been of a very satisfactory character, and the directors have more than ordinary pleasure in referring the shareholders to the superintendent's and mining agent's report which accompanies this, as it shows that the lodes have opened out remarkably well during the past six months, and that they maintain their productiveness at the deepest levels which have been reached at the present moment. Seeing that the price of lead continued so low, the directors considered that the most judicious course to adopt was to limit the extraction of ore, to curtail expenses in every practicable way, and to devote their attention rather to the opening out of further reserves of ore for future working, than bring any large quantity of lead to market during the continuance of such low prices.

This policy has been successful, inasmuch as the reserves of ore available for future extraction have been increased by 450 tons, bringing up the total reserves to 4150 tons, and, notwithstanding the low priceat which the ore raised has been sold in the form of pig-lead, a profit of 1588f. 12s. 11d. is shown on the half-year's working.

sold in the form of pig-rau, a pronout account working.

Since the last general meeting the lode at Peill's shaft has been intersected at the 135 fm. level, and found to be productive—indeed, from its appearance it bids fair to rival in richness the lode in the 120 fm. level; there is thus no indication of a falling-off in the yield of the lode as greater depths are reached.

At the Quinentos Mine some improvements in the productiveness of the lode have recently occurred, and the future prospects of the mine are encouraging. This mine continues to be inexpensively worked, and to yield ore in paying quantities.

Into mine continues to be inexpensively worked, and to yield ore in paying quantities.

The smelting of ore has been well and economically conducted during the half-year, and the works are maintained in a state of efficiency.

In their last report the directors announced that the price of lead had risen to the extent of "about 2t, per ton above the lowest point touched." This advance, however, was not of long continuance, prices having declined in May and June to nearly their former level. There was again an upward movement in the market in August, which has since been maintained, and prices are now nearly what they were in March last.

The balance standing to the credit of the profit and loss account on June 30 last amounted to 16401. 7s. 2d.: out of this sum the directors declared a dividend of 2s. per share, payable on Oct. 4, 14991. 16s.: leaving a balance to carry forward of 1401. 11s. 2d.

[For remainder of Meetings see this day's Supplement.]

e on

ably

esent. the 12

which

served

ted.

for

1 the fit has

r that al part hat as it was

h, and

fit and

n the pany's er ave-

n the

out re

to the ble for

eted at it bids ication

e lode

e halfisen to

WATSON BROTHERS' MINING CIRCULAR.

WATSON BROTHERS, MINEOWNERS, STOCK AND SHARE DEALERS, &c. 1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

D'ERESBY CONSOLS.—We have had the ground dialled, and the lode underlies away from the cross-cut about 1 ft. per fathom; and as the cross-cut is 30 fms. deep this would give a dip of 30 ft. after getting under the perpendicular of the Cobbler's lode, as seen at surface; and the agents think, therefore, there are nearly 5 fms. more to drive. Several small joints have already been met with.

It will be seen by the report that a great and favourable change has taken place in the character of the ground at No. 5, in D'Eresby Mountain, and good returns of lead will be made.

A report has been in circulation that another dispute has arisen in regard to the boundary between West Basset and South Frances, and that the latter had encroached on a rich stope of West Basset. This is now denied, and we hope there is nothing serious in the matter. The last dispute between the two mines in regard to the boundary cost, we believe, over 30,000l., and ruined both mines for a time.

we believe, over 30,000l., and ruined both mines for a time.

The only safe test of a mine is its productiveness, and in future we shall advise our correspondents to judge of Wheal Crebor not by reports of "bulls" and "bears," but by its returns. We have stated that the ore for sale next week has been obtained without a single stope, but that as soon as the winze from the 108 had been communicated with the 120, stopes would be set and returns greatly increased. The first setting since the communication has been made took place this week, and it will be seen that the points now in operation are valued in the aggregate at 272l. per fathom. We have estimated the sale of ore next week at 700l., and are informed on good authority that the sampling for the next two months is estimated at 500 tons, which at 4l. per ton (and much of it may bring over 6l.) will give a profit of 1500l., or 750l. per month. At this rate by the meeting in February there would be 3000l. profit, and we strongly believe the estimate will prove pretty nearly correct. We understand many hundreds of shares have been "beared," and every means is being devised to bring down the price and frighten shareholders out of their property. For ourselves and friends, who hold nearly half the mine, we may say that we did not sell a share when they were at 10l., nor should are sell if they went to that price again tomorrow. With these remarks to the bona fide holders we shall leave the "bulls" and the "bears" of the market to fight their own battle at the coming "settlement." Capt. Holman, of South Caradon, has inspected the mine again this week; he values the 108 east at 42l. per fathom, and the 120 east at 95l. per fathom. He further state that he saw no appearance of its falling off, or any diminution in its value. At the same time, as we have said before, if the ends fell off to 10l. per fathom it would not disturb us, it being the nature of the lode to vary in productiveness. lode to vary in productiveness.

The only mines that we know of on the Crebor lode are Crowndale and East Crowndale. The former, one of the richest mines in the district years ago, is on the estate of the Duke of Bedford, and will not, it is understood, be granted, except to Crebor adventurers. East Crowndale is on the estate of the Earl of Devon, and has been taken up, we understand, by a London company in 12,000 shares, and it is to be called East Crebor. We remember the mine when it was worked about 20 or 30 years ago; it made large returns shallow, and was given up for want of funds when less, we think, than 70 fms. deep. In Mr. Watson's Progress of Mining for the year 1853, in writing of this mine, he remarked "Two tributers working in a pitch at 13s. 4d. in 11., discovered a bunch of ore worth 401. per fathom, which gave new life to the undertaking. The returns since this discovery in 1853 have been 386 tons of ore, realising 32001. A cross-cut is in course of driving towards the lode in the 68 fm. level, which will ere long get under the bunch discovered in the level above, and open out profitable ore ground. What the present company intends doing we cannot at present say. Rix Hill part of East Crowndale paid a dividend of 4s. per share in 1853.

A correspondent wishes to know to what extent copper would have to rise to enable Parys Corporation to make returns of copper irrespective of the 90 cross-cut south. This we hope to answer next week. At the old price of copper the mine would work to a profit.

We have no time this week to refer to the communications just received from "Tan-yr-allt" and others in reference to "Mining on the Stock Exchange since the days of Van."

the Stock Exchange since the days of Van."

SATURDAY, OCT. 4.—Market active for tin shares, at an advance. Crebor, Parys Copper, East Caradon, West Seton, and Tankerville in demand. Carn Brea, 49 to 42½; Dolcoath, 38 to 38; South Condurrow, 12 to 13; South Frances, 8¾ to 9½; Tincroft, 10½ to 11; West Basset, 6½ to 6½; West Frances, 6½ to 6½; Grenville, 4½ to 5½; Pervo; 13 to 13½; Crebor, 5½ to 5½; Parys Copper, 15x to 17s. 6d.; East Caradon, 1 to 1½; West Seton, 40 to 45; Tankerville, 3½ to 4; Roman Gravels, 8½ to 3½; Parys Gopper, 15x to 17s. 6d.; East Caradon, 1 to 1½; West Seton, 40 to 45; Tankerville, 3½ to 4; Roman Gravels, 8½ to 3½; Parys Copper, 15x to 18s. Moxday, Oct. 6.—Market again active for tin shares. Lead and copper stocks also in demand. Dolcoath, 37 to 39; West Frances, 7½ to 7½; Carn Brea, 40 to 42½; East Lovell, 3 to 3½; Peevor, 13½ to 13½; South Condurrow, 12 to 13; Devon Consols, 4 to 4½; Tankerville, 4 to 4½; West Chiverton, 3 to 4; West Tolgus, 25 to 25; Mellanear, 3½ to 4; Marke Valley, 1 to 1½; Parys Copper, 15x to 15x; Kuty, 1 to 1½; Cape Copper, 29 to 30; New Quebrada, 2½ to 2½; Trusday, Oct. 7.—Tin shares are again very firm at a further advance. Devon Consols, Leadhills, West Pateley Bridge, and West Chiverton firm at quotations. Crebor and Parys Copper weaker. Carn Brea, 40 to 45; Dolcoath, 39 to 41; East Lovell, 3½ to 3¾; South Condurrow, 12½ to 13; South Frances, 9½ to 9½; Tincroft, 10½ to 11½; Agar, 3½ to 4; Grenville, 5 to 5½; Peevor, 13½ to 13½; West Chiverton, 3½ to 4; Crebor, 5 to 5½; Parys Copper, 14s. to 18s.; Basset, 2 to 2½; West Seton, 40 to 45; Tankerville, 4 to 4½; Van, 16 to 17; Marke Valley, 1½ to 1½; East Van 2½ to 2½; Roman Gravels, 4½ to 5½; Por Peor, 12s. to 14s.; Eberhardt, 2 to 2½; Fonthon, 2½ to 2½; Panulcillo Copper, 2½ to 2½; Richmond, 8 to 8½; Santa Barbara, 32s. 6d. to 37s. 6d.

8½ to 8½; Don Pedro, 12s. to 14s.; Eberhardt, 2 to 2½; Frontino, 2½ to 2½; Panulcillo Copper, 2½ to 2½; Richmond, 8 to 8½; Santa Barbara, 32s. 6d. to 37s. 6d.
WENNESDAY, Ocr. 3.—Tin shares have further advanced, and close very firm. Devon Consols, Tankerville, and Mark Valley in good demand. Roman Gravels and Richmond weaker. Carn Brea, 45 to 50; Dolcoath, 40 to 42½; East Lovell, 3½ to 4; South Condurrow, 13 to 14; South Frances, 9½ to 10½; Tineroft, 12 to 13; West Basset, 7 to 7½; West Frances, 7½ to 8½; Basset, 2½ to 3; Peevor, 14 to 15; Devon Consols, 4½ to 5; Tankerville, 4½ to 5; Marke Valley, 1½ to 1½; East Caradon, 1½ to 1½; East Van, 2½ to 2½; Roman Gravels, 8 to 8½; West Chiverton, 3½ to 4; West Tolgue, 26 to 28; Mellanear, 3½ to 42½; Parys Copper, 14s. to 18s.; Richmond, 8 to 8½; Cape Copper, 29 to 30; Eberhardt, 2½ to 3; Santa Barbara, 32s. 6d. to 37s. 6d.
THUSBAY, OCT. 9.—Market active for most descriptions of tin, lead, and copper shares. Carn Brea, 47½ to 50; Dolcoath, 40 to 42½; Devon Great Consols, 4½ to 5½; Esst Coaradon, 1½ to 1½ (call paid—2s. 6d.); East Lovell, 3½ to 4; East Van, 2½ to 2½; Glenroy, 7s. 6d. to 12s. 6d.; Great Laxey, 16½ to 17½; Herodsfoot, 2½ to 2½; Glenroy, 7s. 6d. to 12s. 6d.; Great Laxey, 16½ to 17½; Herodsfoot, 2½ to 2½; Glenroy, 7s. 6d. to 12s. 6d.; Great Laxey, 16½ to 17½; Herodsfoot, 2½ to 2½; Glenroy, 7s. 6d. to 12s. 6d.; Great Laxey, 16½ to 17½; Herodsfoot, 2½ to 2½; Cape Copper, 29 to 30; Dolcoath, 40 to 42½; East Lovell, 3½ to 4; Marke Valley, 1½ to 1½; Morfa Du, 15s. to 17s. 6d.; Parys Corporation, 14s. to 18s.; Roman Gravels, 8 to 8½; South Condurrow, 13 to 14; South Frances, 9½ to 10; Tankerville, 4½ to 5; Herodsfoot, 2½ to 13½; Van, 16½ to 17½; West Basset, 7½ to 8; West Chiverton, 3½ to 4; West Frances, 8½ to 9; Don Pedro, 12s. to 14s.; Eberhardt, 2½ to 2½; Roman Gravels, 9 to 10; South Condurrow, 13 to 14; South Condurrow, 13 to 14; South Condurrow, 13 to 14; West Basset, 7½ to 5½; Roman Gravels, 9 to 9½; Frantile, 9½ to 2½; Panulcillo Copper, 2½ to 2½; Roman

MR. WILLIAM H. H. WATSON, DEALER in RAILWAY STOCKS and MINING SHARES at net market prices, is a BUYER of WHEAL CREBOR, PANDORA, COMBMARTIN, and PARYS MOUNTAIN.

CORNHILL, LONDON, E.C.

Registration of Aew Companies.

The following joint-stock companies have been duly registered:-

The following joint-stock companies have been duly registered:—
The Mickleover and Etwall Gaslight and Coke Company (Limited).—Capital 60001., in shares of 101. The making and supplying with gas, coke, and other kindred materials the villages of Mickleover and Etwall and adjacent parishes in Derbyshire. The subscribers are—W. Holly, Derby, 30; H. H. Benrose, Derby, 30; C. H. Bakewell, Quamdon, 20; B. Bradley, Derby, 50; E. Mills, Derby, 30; G. Murray, Elvastone, 5; W. Peat, Derby, 20; C. E. Newton, Mickleover, 50; J. Haslem, Derby, 50.
PROFESSIONAL CLIENTS' CO-OPERATION (Limited).—Capital 100,0001., in shares of 101. and 11. To act as accountants, stock, share, and insurance brokers, agents, discounters, money lenders, financiers, &c. The subscribers (who take one 101. share each) are—F. Pope, 72, Cromwell-road; C. Messent, 108, Fleet-street; G. G. Wright, I, New Broad-street; J. B. Meikle, Acton; C. Smith, Leamington; R. K. Stubbs, Ealing; C. H. Davison, 2, Milner-square. The Wine and Spirits Trade Company (Limited).—Capital 15,0001., in shares of 501. and 51. To import, purchase, and sell wines and spirits by wholesale and retail. The subscribers (who take 51. shares) are—A. Brodie, 20, Mark-lane, 20; W. O. Hancock, 6, Muscovy-court, 20; C. Webb, Dunster House, Mark-lane, 20; W. B. Parker, 38, Poultry, 1; F. H. W. Nisbett, 218, Cromwell-road, 1; G. F. Montgomery, Mark-lane, 1; F. R. H. Heawood, 4, Savage Gardens, 20.
Constantinople Land and Bullding Company (Limited).—Constantinople Land and discourse described and company (Limited).—Constantinople Land and Bullding Company (Limited).—Constantinople L

CONSTANTINOPLE LAND AND BUILDING COMPANY (Limited). CONSTANTINOPLE LAND AND BUILDING COMPANY (Limited).—Capital 25,000l., in shares of 2l. To acquire by purchase for 24,000l., payable in shares, lands and hereditaments in Constantinople, and to carry on generally the business of a land and building company. The subscribers (who take one share each) are—W. T. H. Radford, 2, Fenchurch Avenue; F. H. Credland, 16, Oakley-street; F. H. Thorpe, Clapham; O. W. Horne, 35, Finchley-road; C. Daff, 56, Oakendon-road; T. Phillips, Hampstead; A. S. Marks, 34, Colville-square.

Oakendon-road; 1. Finings, Square.

THE BARTON-UP-IRWELL CONSERVATIVE CLUB BUILDING COMPANY (Limited).—Capital 5000l., In shares of 1l. To acquire land, and erecting thereon a club and any other buildings that may be required. The subscribers (who take 50 shares each) are—B. Taylor, Eccles; C. W. Bayley, Eccles; H. Boddington, jun., Manchester; A. Burton, Eccles; R. Hall, Eccles; W. H. Boddington, Eccles: H. Wilkinson, Eccles.

THE EXETER ARCADE COMPANY (Limited).—Capital 15,000l., in

Wilkinson, Eccles.

THE EXETER ARCADE COMPANY (Limited).—Capital 15,000l., in shares of 10l. The acquiring and building of houses, hereditaments, and shops in Exeter, and selling and otherwise disposing of same. The subscribers are—J. Pope, Exeter, 20; W. H. Ellis, Exeter, 20; J. Damevel, Exeter, 20; G. F. Truscott, Exeter, 20; R. Preston Bishop, Exeter, 10; E. E. Brand, Exeter, 10; S. R. Force, Exeter, 5; W. H. Tighe, Exeter, 5; W. Cotton, Exeter, 20; J. Bier, Exeter, 20; G. Franklin, Exeter, 10; M. Prome, Exeter, 10; L. J. Kennaway, Exeter, 5.

THEATRE ROYAL, OLDHAM (Limited) .- Capital 10,0001., in shares

THEATRE ROYAL, OLDHAM (Limited).—Capital 10,000l., in shares of 5l. To purchase a hall in course of construction at Oldham for the purpose of a theatre, and to conduct or sell same. The subscribers (who take five shares each) are—J. Hargraves, Oldham; O. H. L. Hargraves, Oldham; S. Jackson, Oldham; J. T. Mumps, Oldham; J. Firth, Oldham; W. Firth, Oldham; A. Boyd, Oldham.

KIRKHAM, HULETT, AND CHANDLER (Limited).—Capital 80,000l., in shares of 20l. To acquire the business carried on by Kirkham, Hulett, and Chandler of machine manufacturers, or to continue such business. The subscribers (who take one share each) are—T. N. Kirkham, 2l, Abingdon-street, Westminster; C. J. Hulett, 2l, Abingdon-street, Westminster; C. J. Hulett, Sc. Chandler, 104, Newington Causeway; J. Chandler, 104, Newington Causeway; T. Hersey, 2l, Abingdon-street, Westminster.

MARKET ECHOES AND MINING MATTERS.

MARKET ECHOES AND MINING MATTERS.

There appears now to be no doubt that a general revival has set in for mining. Heavy business is the order of the day, and shares of all good mines—tin, copper, and lead, are rapidly increasing in value. The past week has, however, been chiefly notice—able for the great rush upon tin shares, in consequence of the two sharp advances of the metal in London, amounting together to 101.

These have been followed by a further rise of 31. in the cornish standards; but considering the increased value of tin, and its firm appearance, the Cornish rise can only be considered as an instalment of what is to come. The standards have now been advanced about 161, from the lowest, equal to nearly 101, per ton on good black tin (that is the ore as sold from the mines); and as to many mines, this increment represents so much additional profit, it can readily be understood why the leading shares should now command such much higher prices. A glance at the List shows some marked changes in quotations. Botallack a month since were 22; they are now 55. Dolcoath were 30; present price, 40 to 42. East Pool about 13, now 16 to 17. East Lovell 30s., now 3 to 3½. South Frances from 7½, to 10. Tincroft from 10, to 13½; the rise would doubtless have been greater here but for a "crush" in the mine. West Basset from 4½ to 5, to 8½. West Frances from 4½, to 9½. Wheal Jane from 30s., to 4. Wheal Owles from 20, to 60. Wheal Peevor from 11, to 14½.

Not for seven or eight years has such confidence been felt as to the future of our mines. The low prices have taught many a useful lesson of economy, the effects of which will be lasting, and as was stated last week at the Tincroft meeting, it will doubtless turn out that Cornish mines have not been altogether losers by the so triumphantly emerging. There is now, in fact, plenty of confidence in the triumphantly emerging. There is now, in fact, plenty of confidence in the triumphantly emerging. There is now, in fact, plenty of confidence in the triumphantly emerging.

INVESTMENT NOTES.

The important rise in tin in the London metal market and the further advance of 5*l*. per tom in the Cornish standards have caused a brisk demand for tin shares. During the past month the value of five of the principal tin mines has increased from 227,354, to 386,886*l*. It must be borne in mind that each advance in price of the produce adds to the profits, which will, doubtless, be much larger than they where when the metal was formerly at such a high price, as working expenses have been everywhere reduced considerably. The public and clients have been constantly urged to make their purchases when shares could be had for a merely nominal value, and even during the past few weeks the selections made in these Notes have fully realised the anticipations expressed. There are yet shares to be bought which have not reached their proper value on the prospects of improvements in the mines, and continued rise in both tin and copper, Of such East Caradon, Parys Corporation, North Busy, Kity (St. Agnes), East Lovell, Wheel Basset, and Wheal Agar may be mentioned.

Crebor shares have not fluctuated so much during the week. Many inspectors visited the mine last Tuesday, but their reports do not at all agree as to the value of the various points and the future of the property.

The sales of copper alone will prove the accuracy of the opinions so confidently asserted. The call made at East Caradon was 2s. 6d per share, and a very promising report was issued. A good rise in shares is not at all improbable. Owing to the fall in Orebors, East Caradons became weeker, after being 30s., but now at 1½ to 1½ the shares are enquired for. In lead shares, Tankervilles (recommended at adds to the profits, which will, doubtless, be much larger than they

3 to 3½) have advanced to 4½, 4½. Leadhills are worth buying at 2½ to 2½; and the rise in the price of lead should cause the Van dividends to be increased, so a further advance in shares may be looked for. Herodsfoot remain steady at 2½ to 2½, and should be purchased. Reference has so recently been made to North D'Eresby Mountain Mine that comment is unnecessary, further than to state that copies of the special reports may be obtained by intending investors. Evidence is conclusive that the company possesses most valuable mine. The Stock Exchange markets have been very active, and a heavy business has been transacted in Brighton A, North British. Berwick, Caledonian, Chatham, Dover A, Egyptians, Eries, Canadas, Trunks, &c.

P.S.—Lead has improved 10s. to 12s. 6d. per ton, and a firm market exists for Van at 17½ to 18½, and Roman Gravels at 9 to 10. The latter mine is looking splendid, and at present prices the shares are a safe investment, while dividends will probably increase, as it is almost certain that lead has only just commenced to rise. Basset shares are 2½ to 3; the new engine—a powerful 80-inch—has been started under very favourable circumstances. Being manufactured in dull times, the company saves a large sum of money, and it speaks well for the energy of the adventurers that they should have been bold enough to order such a fine piece of machinery when times were not so bright as they are now.

76, Old Broad-street, London, Oct. 10.

THE WEEK.

THE WEEK.

SATURDAY, O.T. 4.—Several home railways rather lost ground, and there was a complete absence of the animated bidding of the previous day. An advance of 30 th the previous day. An advance of 50 th the there has been an utter warmer Eastern, were the sole improvements. Of lists there has been an utter warmer Eastern, were the sole improvements operating the previous day. An advance of 50 th the there has been an utter warmer Eastern, were the sole improvements are possible to make anything out of the stock for at least three accounts. Many who missed British, Bereick, Brighton, and Caledonian bought here, and so far have rather lost than made money. Crebor were dull at 5t. So far the "bears" have been the best friends to the shareholders, their excited "buying back" having sent there appear to be very few "bears," and fit this continues the new there sent there appear to be very few "bears," and fit this continues the new there sent there appear to be very few "bears," and fit this continues the new there sent there appear to be very few "bears," and fit this continues the new there sent there appear to be very few "bears," and fit this continues the new there is a socked had a further considerable rise. District rose 2t straightsway, and several stocks had a further considerable rise. District rose 2t straightsway, as did Berwick, while ther is in Brighton, A, was as much as 2t/s. The turffic showed an increase of 145t/s, which came up to the highest expectations. Great Western touched par. Thin mines were in active demand, but very few shares could be get. A hominal advance of 15t/s, was reported in Wheat Ovels and Botallack, 23/4 to 24; Panulcillo, 24; to 24. Erie shares and bonds were exceedingly good, the Second Mortgage touched 80½, being a rise of 2½.

Tourseary.—A pause shown in home railways, and sellers had to occupit east to have a subject of the second Mortgage to the second mortgage in the previous subject of the second mortgage in the second mortgage in the second mortgage in the second m

WEST SETON MINE-ITS PROSPECTS.

WEST SETON MINE—ITS PROSPECTS.

With the advance of the standards in copper and tin this celebrated mine is again coming to the front. A few remarks on it may not be amiss. The mine commenced working in 1847, and the sum of 19,000l. was expended by the shareholders in erecting machinery and opening up the mine. After a considerable amount of perseverance copper ore was discovered, and the discovery being a good one large returns were made. Many handsome dividends were declared, and shares run up to an enormous price, the market value of the mine being reckoned at 160,000l. This large sum was, however, fully warranted by subsequent dividends, and a sum of 203,000l. was divided among the fortunate shareholders, besides a large amount laid out in additional machinery on the mine. These were in the palmy days of mining, and although the mine has been for some time suffering from the depression in the price of metals in common with other mines, there is every probability of it again attracting a considerable amount of attention.

The great course of copper ores held down as deep as the 145, and at the next level—the 155—the copper ore, as in Dolcoath and other mines, greatly diminished. Tin, however, began to show itself, and the value of the level was greatly affected by these minerals becoming much mixed together, and owing to the great cost and loss in separation sinking to deeper levels was resolved on, and on the 165 being opened westward the lode was found to have completely changed from a copper lode into a tin lode, thus following the same course in changing as Dolcoath. The 165 has been driven for 80 fms. through a very good lode of tin, the average produce being 56 lbs. of tin in each ton of tinstone, the average width of the lode varying from 8 to 12 ft., and the end still continuing good. The next level—the 177—is now extended into the same run of tin ground, the lode maintaining its full size, and with increased depth becoming much richer. A winze has also been sunk from the 165 to the 177 to test the l The future of this mine is regarded by many practical miners with much interest, as it bids fair to become quite as valuable in the future for tin as it has been in the past for copper.

SANTA BARBARA.—Shareholders will find that in the immediate future an increasing profit will be realised. The mine having improved the force has been increased, and under the present effective administration such remunerative results will accrue as to cause these shares to rise considerably in market value.

HOLLOWAY'S OINTMENT AND PILLS—RHEUMATIC PAINS, TIC DO-LOREUX.—These diseases are, unfortunately, very prevalent in this country, and are frequently most distressing, sometimes for years baffling all medical skill, to alleviate the sufferings of the victim. In no case has Holloway's ointment and pills failed to produce a cure. The ointment exerts a peculiar and soothing influence over the nerves and muscles, relaxing spasms and subduing pain. The attack soon becomes milder and the intervals between the parcoxysms longer until they cease altogether. The pills restore the body from a weak and debilitated condition to a state of health and strength. Persons bedridden for months with rheumatic pains and swellings, after using the ointment, have been cured in an incredibly short period. HOLLOWAY'S OINTMENT AND PILLS-RHEUMATIC PAINS, TIC DO-

Address: W. H. H. WATSON, 1, ST. MICHAEL'S ALLEY.

Alanbadarnfawr Tead Mine Company

Capital £20,000, in 5000 Shares of £4 each.

3875 of which will be denominated A Shares, and will be liable to calls, and 1125 of which will be denominated B Shares, and be issued as fully paid-up to vendors of the property.

£1 payable on application and £1 upon allotment. In case of no allotment, all moneys will be returned in full. No calls to be made within six months after allotment.

AUDITOR (AND ACTING SECRETARY, PRO TEM.)-MR. E. L. ERNEST.

OFFICES,-4, QUEEN STREET PLACE, CANNON STREET, LONDON, E.C.

ABRIDGED PROSPECTUS.

This company is formed for the purpose of purchasing from the present holders the Lianbadarnfawr Mining Sett, and by proper application of capital developing the evident great resources of the property, which it is confidently believed by the best scientific authorities must yield great returns to the investors.

The property is situate in Cardigarabiric, on the estate of Sir Pryse Pryse, some eight miles from the shipping port of Aberystwith, and in the heart of the richest cluster of lead mines in the United Kingdom.

It has an area of one mile in length upon a transport of the settled of the port forms one of the boundaries of the settled with the part forms one of the boundaries of the settled with the part forms one of the boundaries of the settled with the part forms one of the boundaries of the settled with the part forms one of the boundaries of the settled with the part forms one of the boundaries of the settled with the part forms one of the boundaries of the settled with the part forms one of the boundaries. The part of the settled with the part forms one of the boundaries of the settled with the part forms one of the boundaries of the settled with the part forms one of the boundaries. The part of the port forms one of the boundaries of the settled the part forms one of the boundaries of the settled with the part forms one of the boundaries of the settled with the part forms one of the boundaries. The part of th

Mining Correspondence.

BRITISH MINES.

ABERLLYN,—J. Roberts, Oct. 3: Monthly Report: During the past month the ground in No. 2 cross-cut has been rather hard, and spare for driving. We have driven here about 6 ft.; this is let this month to two men, at 84. 10s, per fathom. In the stopes on the hard lode we have stoped about 9 cubic fathoms, being less than 4 fathoms for the whole width of the lode, which has yielded about 30 tons of blende. These stopes are let to eight men, at 44. per cubic fathom. The stope on the shale has been worked by two men (on account of sinking the winze directly under this we could not very well put more men), who have stoped about 3½ fathoms, which has yielded about 10 tons of blende, and we hope to do the same here this month. In the winze below this we have sunk about 1½ fathom; the lode has not been so very good in the past month, yet still it has yielded some good saving work for blende; set again to two men, at 66. per fathom. In the rise at No. 3, rising against this winze, we have risen. 3 fathoms; it has yielded some good pockets of blende, but most of it is still standing in the rise; set to two men, at 37, per fathom. At the Valley cross-cut, after securing the mouth of the level, we have driven in the hard lode from 4 to 5 ft.; the lode is mixed with sulphur and good patches of blende; as far as we can yet see it it is a very kindly lode. I expect to get the new stonebreaker up this week, and we shall get it to work as soon as possible. All the machinery works well, and when we can get the stonebreaker to work it will greatly reduce our dressing cost.

BETTMENT-Y-COED.—C. J. Sims, Oct. 9: There is no change in any of the points

up this week, and we shall get it to work as soon as possible.

works well, and when we can get the stonebreaker to work it will greatly reduce our dressing cost.

BETTWS-Y-COED.—C. J. Sims, Oct. 9: There is no change in any of the points underground since my last report, excepting that in Allen's stope, in the back of the deep adit level, the lode has improved, and is now worth 30 cwts. of lead ore per fathom. We are getting on very well with the dressing, and have to-day sent out samples of 30 tons of lead ore for sale on the 16th current.

BLUE HILLS.—S. Bennetts, P. Vian, Oct. 4: The lode in the bottom of the shaft below the 30 is about 1 foot wide, producing low quality tinstuff. The stope in the bottom of the 30 is worth 7t. per fathom. In the 30 cast end the lode continues poor.

BODIDRIS.—H. Hotchkias, Oct. 8: The only change in the 45 end is that more water is coming out of the forebreast.—Moes-y-Pwli Lode: In the 17, cast of new shaft, we are now stoping in bottom or this level, where we have good lead-stuff for the dressing-floors. The level west of shaft is improving for lead ore. All other points are without change to notice since my last, and all going on regularly, and with as much speed as possible.

BWLOH UNITED.—Nicholas Bray, Oct. 3: The lode in the 70 fm. level, other change of importance since last report. The shaftmen will commence dividing and casing the shaft to the 100 fm. level on Monday next; the time is already prepared for this work. All other matters are progressing well, and machinery in good order.

GARON.—John Kitto, Oct. 4: The lode in the 22, driving east from engine

BWLGH UNITED.—Nichois Bray, Oct. 3: The lode in the 70 fm. level, divide and more vertical, with no other change of importance since last report. The shaftmen will commence dividing and casing the shaft to the 100 fm. level on Monday next; the timber is already prepared for this work. All other matters are progressing well, and machinery's not good order.

OARON.—John Kitto, Oct. 4: This lode in the 22, driving east from enging of the commence of the commenc

Prospectuses, plans, contracts, Memorandum of Association, &c., can be had, and contracts seen, at the offices of the company.

In gemporary arrangements for pumping with the engine, to endeavour to sink the sump, whilst we may sink the Gorse shaft, or make a shaft through the old stope over the sump, whilst we may sink the Gorse shaft, or make a shaft through the old stope over the sump, whilst we may sink the Gorse shaft, or make a shaft through the old stope over the sump, whilst we have seen proported for two or three weeks past. The think we shall open some good stoping ground for blende, beside the chances of getting lead. We have sampled a parcel of blende to-day, computed 25 tons.

DEVON GREAT CONSOLS.— It falls, carlos, e.g., e.g., which is the load saveraging 2 ft. wide, composed of capel, quarts, peach, and small quantities of mundle and copper ores. The 115 west has been driven 2 fms. 1 ft., the lode parcing 2 ft. wide, composed of capel, quarts, peach, mundle, and all the lode proving 2 ft. wide, composed of capel, quarts, peach, mundle, and some good quality copper ore; a very promising lode.—New Shaft—New South Lode: The shaft has been driven 2 fms. 2 ft. 3 in., the lode part, carried 3½ ft. wide, being composed of very fine capel, quarts, peach of principle, and since the completion of the same has been caped and divided, ladders and ladder sollars have been put in, and sklp-road fixed from the 190 to the 205 level complete, and since the completion of the same has been caped diving a cross-cut north for intersection of the north part of the lode, lode about 2 ft. wide, composed of rincepality of capel. It is done the cross-cut is being extended in that direction for proof of same. The 190 has been driven and more productive part of the mine is still further north, and the cross-cut is being extended in that direction for proof of same. The 190 has been driven and more productive part of the mine is still further north, and the cross-cut is being extended in that direction for proof of same. The

next week end. The shaft is now down altogether a few inches of 8 fathoms.

EAST CRAYEN MOOR.—David Williams, Oct. 9: The 54 west is extended form shaft; the vein in the end is 3 ft. wide, consisting principally of spar, gossan, and lead ore, worth of the latter 10 cwts. per fathom. A stope in back of the level is worth 24 cwts. of lead ore per fathom. A stope in back of the level is worth 24 cwts. of lead ore per fathom. The cross-cut south from the 42 to the parallel veins is in 53 fms.; we have, as predicted in my late report driven through the first of the series of lodes, which at the point of intersection is 6 ft. wide, its component parts being quartz and gossan mixed with barytes and spots of ore, and is, on the whole, a most promising vein. We have about 10 fms. more to drive to reach the junction of this with wo other lodes which proved very rich as shown in the surface excavations. The 56, west upon Hardgate end vein, is extended from the shaft 108 fms. 3 ft.; the vein here is 3 ft. wide, and producing saving work for dressing; other points progressing favourably. At surface we are proceeding favourably with dressing, and are preparing for the pumping connections. Our machinery is in excellent condition.

and are preparing for the pumping connections. Our machinery is in excellent condition.

EAST DARREN.—Oct. 3: In the 104, east of cross-cut, the lode is 3 ft. wide composed chiefly of dark clay-slate, carbonate of lime, spots of blende, and lead ore, yielding of the latter 1 ton per fathom. In the 92, west of cross-cut, the lode is small, and disordered by cross-joints; unproductive for lead ore. This point we suspend for the present, and put the men to sink a winze under this level in a lode 5 ft. wide, yielding 1 ton of lead ore per fathom. In the 92 east, west of cross-cut on south branch, the lode is 2 ft. wide, yielding 12 cwts. of lead ore per fathom. In the winze just commenced under the 80, west of cross-cut, the lode is 4 ft. wide, producing 15 cwts. of lead ore per fathom. In the 80 east on south branch, near Taylor's shaft, we are now passing through a cross-course preparatory to communicating to a rise worked up from a stope, in which the lode is large, and worth 1 ton of lead ore per fathom. The stopes and tribute pitches throughout the mine are without change to remark. The new line of rods to Loveden's shaft is completed, and connected to the new water-wheel, which is steadily at work, enabling us to suspend the working of the steam-engine. The machinery is in good order. Drawing, &c., progressing regularly, with a good supply of water.

EAST LONGSTONE—II Harris, Oct. 7, We are making good processing distances and connected to the new Acter-water and distances and distances are properly to the steam-engine.

upply of water.

£AST LONGSTONE.—H. Harris, Oct. 7: We are making good progress in driving the adit towards the east and west lode. The ground is not quite so easy, but we
require no timber. We hope to reach the lode in a fortnight. I see the mine is
highly noticed in the Devon and Cornish Post, extract of which I send you.

ighly noticed in the Devon and Cornish Post, extract of which I send you.

EAST ROMAN GRAVELS.—Arthur Waters, Oct. 9: We have not yet cut the ode in the 97 cross-cut west of shaft, but expect to do so very shortly. This ross-cut is being driven by nine men, at 14t, per fathom. The 88 to drive south of shaft, by four men, at 6t, 10s, per fathom; lode 1ft. wide, yielding stones of rec. The 75 south, by two men, at 3t, 10s, per fathom; lode at present worth ton per fathom. No. 1 pitch in the back of this level, by four men, at 4t, per on; worth 1½ ton per fathom. No. 2 pitch in the back of this level, by four men, at 5t. 5s, per ton; worth 7thom. No. 1 pitch in the back of this level, by four nen, at 3t. 15s, per ton; worth 2 tons per fathom. No. 2 pitch in the back of this level, by two men, at 5t. 5s, per ton; worth 15 owts. per fathom. No. 2 pitch, dittp, by two men, at 5t. 5s, per ton; worth 15 owts. per fathom. No. 2 pitch in the obtom of the 3t, 5s, per ton; worth 15 owts. per fathom. Pitch in bottom of this level south, by two men, at 5t. 5s, per ton; worth 15 towts, per fathom. Pitch in the bottom of the 16th inst.

EAST VAN.—Wim. Williams, Oct. 8: We have driven upon the course bouth, we south, west from shaft, 2 fms.; so far we have not much to say about it.

GAWTON COPPER—George Rowe, George Rowe, jun., Oct. 4: We beg to hand you our report of this mine for the general meeting, to be held on the 6th inst., showing the present position of your property, which is as follows:—Since the last general meeting our principal operations have been confined to opening upon the south lode both east and west of the cross-cuts at the 117, 195, and 95, and working upon the lode above and below the 195 on the most productive part of the lode. The 117 has been extended both east and west of the cross-cut, proving the lode to be from \$ to 10 ft. wide, going down in the bottom of the mine, yielding capel, spar, and arsenical mundic, mixed with good quality copper ore, in places to the amount of 2 to 3 tons per fathom. The 105 is extended east of the cross-cut f ms. 3 ft. on the lode, varying in size from \$ to \$ ft. wide, yielding arsenical mundic and copper ore to the amount of \$, 10, and 12 tons per fathom. The lode in the stope below the 195, west of the winze, is yielding arsenical mundic and ore to the value of 9ℓ, per fathom. No. 2 stope, in the bottom of the same level, east of the said winze, is worth 10ℓ. Per fathom. Above the 105 the lode in the stope is over \$ ft. wide, producing arsenical mundic and ore to the value of 10ℓ. per fathom. The lode at the 95, east of cross-cut, is over 12 ft. wide; the part carried in the drivings is producing very strong arsenical mundic, mixed with copper ore, in places \$ to \$ tons per fathom. At the \$2 the south lode is intersected by a cross-cut, and found to be of the same productive description, producing arsenical mundic, mixed with ore \$8 and 10 ft. wide, going east idto the hill, where the depth of the different levels named will be greatly increased, as the drivages advance in that direction towards this great cross-course and the Bedford Conscls sects, which should be extended with all possible vigour, and suitable furnaces with other appliances erected to treat all our produce obtained from this large lode by separating the arsenic

the two telectes on this lode set to eight men, at 100s, per ton of ore.—Esgairgaled: We have one tribute pitch on this lode set to two men, at 100s, per ton of ore.—We sold 40 tons of ore to-day to Messrs. Joseph Walker, Parker, and Co., at 9f. 17. 6d.

GREAT RETALLACK.—J. Harris, Oct. 6: Our men met with a run of attle on Friday last, but which they have secured; but they have not advanced so far as I expected when I hast reported. I hope, however, better progress will be made this week, and that we shall get down to the 40 by Saturday next.

GREEN HURTH—W. Vipond, Oct. 2: The end of the 30 south continues to yield about 5 tons of ore per fathom. The Ilmestone in this end has been rising this week instead of dippling as it generally has done; the best ore is still in the bottom. The end north continues to yield 15 cwts. of ore per fathom; this end shows signs this morning of coming into easier ground. I think we may look for some improvement in the yield of ore from this part. The sump at foot of incline is still in hard ground. The two men I sent inside have got the rails relaid, and are now clearing out some work from the cross-cut from rise furthest south in incline level, and I think if the vein is to the west of us they will discover it soonest by putting this on a little further in the limestone. The new shaft is in the plate and down 2 fms.; we have began this morning to build a shed over this to shelter the men when at work.

GRIFFIN.—Charles Kneebone, Oct. 8: I have little to add to my report of last week, the engine-shaft is being cut down below the 10 to the required size to take the pumps, and give us room for the kibbles to work freely. We have not yet commenced to drive a stope in the 10. We have put four men to stope in the back of the intermediate level on the Griffin lode for a few days till we can resume work in the 10 to advantage. In the main addit level north the Griffin lode is very large, with good rocks of lead occasionally, but not regular, worth 7 cwts. per fathom for the part carrie

to yield about their usual quantities of copper ore. We are making an energies possibly we can now this fine weather with the erection of the new dressing machinery.

HERODSFOOT.—P. Temby, Oct. 9: The lode in the engine-shaft, sinking below the 295 fm. level, is 2½ ft. wide, and producing good lumps of solid lead ore. The lode is of a very promising character. The three stopes over the 295 are still holding good. We have nothing new underground this week. The several bargains throughout the mine appear to be of much the same value as last reported on. To-morrow being the end of the month the lode will be taken down in each place, and a full report sent for next week. At surface we are making much better progress with the wheel-pit, &c., and as the weather is fine we have tested the new jiggers with every kind of stuff, and I am pleased to say they answer remarkably well. We have delivered No. 2 parcel of ore at Looe, and the wagons will commence to-morrow to take down No. 1 parcel.

HINGSTON DOWN CONSOLS.—Thomas Richards, Oct, 8: In the deep adit level driving east on the course of the lode a little rich copper ore is still being met with, and the present prospects are very encouraging. [In the deep adit south the ground continues moderately easy, and fair progress is being made.

LADYWELL.—Arthur Waters, Oct, 9: The lode in the adit going south of new shaft is 6 in. wide, composed of carbonate of lime and stones of lead ore.

LOVELL (The).—Joseph Prisk, Oct, 9: The lode in the 40 end, east of Howman shaft, is 8 ft. wide, worth 15t. per fathom. The lode in the bottom of the said level is 8 ft. wide, worth 15t. per fathom. The lode in the rise in back of the 40 is 6 ft. wide, worth 15t. per fathom. The lode in the ise in back of the is 8 ft. wide, worth 15t. per fathom. The lode in the rise in back of the for a considerable time, and as the price of tin advances we shall be in a position to increase our returns.

MELYNDWR.—J. Kitto, Oct. 4: We have not yet intersected the lode in the tow

is 8 ft. wide, worth 15t. per fathom. The mine eastward has not looked so well for a considerable time, and as the price of tin advances we shall be in a position to increase our returns.

MELYNDWR.—J. Kitto, Oct. 4: We have not yet intersected the lode in the 25 fm. level cross-cut, and, consequently, I have nothing whatever new to report to you. Very fair progress is still being made in driving.

MINERAL CORPORATION OF GREAT BRITAIN.—William Bennetts, Oct. 8: MAENA, HOH BAFKA, and GREAT D'ERESHY: There is nothing to call for special remark since my report of last week. Everything is progressing well.—Boring-Machine: All the remaining work we have to do will be finished by the end of the present week, when we shall be ready for the contractors' engineers, who will make the final connections, when we shall start boring. Our new watercourse, from Hafna to Great D'Eresby, will be finished by this day week.

MONYDD GORDDU.—J. G. Green, Oct. 8: No. 1 stope in the back of the 34 is worth 25 cwts. per fathom: No. 2 stope in the back of ditto is worth 15 cwts. per fathom; working by 12 men, at 75s. per fathom. The 24 to drive west, by six men, at 120s. per fathom; the end continues without ore, and I can only account for it by the western run of ore ground recently discovered in the 12 dipoing west the same as the others—we have only a few fathoms further to drive to come under the winze. I have set two men to drive on the cross-branch over the winze in a south-westerly direction; worth 8 cwts. per fathom. Two men to rise in the back of ditto; also worth 8 cwts. per fathom—both these are trials. To sink the winze below the 12, to six men, at 71, per fathom; the nine—tital winse; when holed we can commence stoping in this part of the mine—tital take about two months to effect the communication by driving, sinking, and rising. We shall be able to sample 20 tons of lead by the end of the month. Taking into account the new run of ore, and that we have only just commence toping in this part of the mine—tital than now.

MOR

nan now. MORFA DU.—T. Mitchell, Oct. 9: The sinking of the shaft continues to go a satisfactorily. All other points are going on as usual, and without any change

MORFA DU.—T. Mitchell, Oct. 9: The sinking of the shaft continues to go no satisfactorily. All other points are going on as usual, and without any change worthy of notice.

NEW CATHEDRAL.—Stephen Davey, Oct. 9: Since my last report the 12-in. pitwork has been delivered on the mine, and we have been engaged in fixing it with the greatest dispatch; and having now dropped 15 fathoms below the aditievel we consider this sufficient, at first, with safety, and are now engaged putting in the bucket and plunger set-offs, getting ready the buckets, rods, clacks, and joints, and all that is required at surface for the starting of the engine, which will take place on Saturday. The boller having been filled we intend lighting the fire to-morrow; and as soon as the engine is set to work and begins to fork the water we shall commence to draw to surface the former pitwork.

PANDORA.—F. Nottingham, Oct. 9: New Lode: The 33 driving south, is yielding some very good quality blende, about 16 cwts. to a fathom, with good stones of lead intermixed. The stope north of No. 1 winze still looks well, worth 2 tons of lead and 1 ton of blende per cubic fathom, or 3 tons for width of the lode.—Goddard's Lode: The rise in the 33 south, under No. 1 winze, is showing some good lead in the north end, but the south end is poor. In another week we hope to communicate this with the winze. The tramroad is laid and in use along the 33, on new lode, and in a few days days we shall proceed laying ralls in the cross-cut and along the 33 fm. level south, on Goddard's Lode. The rise south, on Goddard's Lode. The rise south, on Goddard's Lode. The lode in the 23 (new lode) driving north is at present very shaley, such as we generally see intervening between the run of ore ground, and I look for such beyond this. No. 2 stope is worth 15 cwts. of lead and 25 cwts, of blende to a fathom.—3 transcription of the control of th

nest flat. The ground consists principally of chert intermixed with sulphus a small patches of copper. The 90, west of cross-cut, is looking much the

and small patches of copper. The 90, west of cross-cut, is looking much the ame as last week—presenting a promising appearance.

PATELEY BRIDGE—C. Williams, Oct. 5: The 40 east on Rake vein is unhanged; the lode in the end is fully 5 ft. in width, and worth 2 tons of lead ore for fashom. The 40 west has further improved; worth 4 tons of lead ore per fn. So change to note elsewhere. Dressing and smelting progressing favourably.

PENHALIS—S. Bennetts, P. Vian, Oct. 4: The lode in the 70 east end is cut beyond the gossan referred to in our last report, and found much the same as on he south side—small, and not of much value. The top lode, by means of this ault, is close to the under part, and contains some good thustuff, although it is los small. The stopes behind this end maintain their value fairly well, and are vorth from 12½ to 14½, per fathom. The driving of the 43 west is resumed, and he lode is worth 54, per fathom. A stope in back of the 40 is worth 54, per fm. the rise at this point is poor. The lode in the winze below the 30 is at present improductive.

worth from 12t. to 14t. per fathom. A stope in back of the 40 is worth 5t. per fathom. The rise at this point is poor. The lode in the winze below the 30 is at present unproductive.

RED ROOK.—J. Ritto, Oct. 4: The 23, driving west from the eastern shaft has considerably improved in character since the date of my last monthly report; the lode has already yielded a little lead, and I expect to reach the run of ore ground seen in the 10 above before the end of the current month. There is a change for the better in the 72, east of old engine-shaft, and the lode is now precisely of the same character as it was in the 50 just before we got into the ore ground, so we are expecting a further improvement shortly. The stopes are looking much the same as for some time past, except one in the roof of the 10, which at present is not so rich as it has been. We have sold to-day to Messrs. Nevill Druce and Co. 40 tons of lead ore, at 91, 7s, per ton.

ROMAN GRAVELS.—Arthur Waters, Oct. 9: The new shaft is now 14 fms. 1 ft. below the 10. The 95 south is worth 3 tons per fathom. The winze below the 80 north is worth 2½ tons per fathom. The stopes and other points in the mine shaft reported. We have to-day sold 200 tons of lead ore for 1940.

SOUTH CONDURROW.—W. Rich, W. Williams, H. Abraham, Oct, 7: The lode in the 40, east of King's, carries stones of tin. The 50 end east is in a large kindly lode, and is now worth 102. per fathom. The rise in the back of this level is worth 124, per fathom. The 80, west of Plantation shaft, is in a large promising lode, and yields tinstone of moderate quality. The 70 end west has passed through the oblique branch mentioned in our last report, and has again improved, now worth 154. per fathom. The 70 end, east of King's, is worth 62, per fathom. The 70 end, east of king's, is worth 63, per fathom. The 70 end, east of king's, is worth 64. per fathom that is the mine. The 93 end east is worth 82, per fathom.

BOUTH DARREN.—Henry James, Oct. 9: We are making good progress in sinking the shaft; no

of copper.

TALYBONT.—T. Glanville, Oct. 7: In driving north from the bottom of the winse that is sunk 16 yards below the cross-cut we have cut a branch of lead from 4 to 5 in. wide; whether this is No. 2 lode or a part of the old lode I cannot say at present, but hope by the end of the week to let you know more about it. I can assure you I have not seen finer lead in the mine than what we are at

can assure you I have not seen inner lead in the mine than what we are at present breaking.

TANKERVILLE.—Arthur Waters, Oct. 9: The 220, east of shaft, is driven 8 fms. 4 ft.; the lode to-day is 5 ft. wide, worth 1½ to 2 tons per fathom. We have every reason to believe that this end is now entering the run of ore ground seen in the level (the 265) above. The 220 west is driven 9 fms.; the lode at present is 2½ ft. wide, worth about 10 cwts. of lead ore per fathom. There are eight stopes at work in the 206, one west and seven east of shaft, worth together 14 tons of lead ore per fathom, and 16 tribute pitches, from the 182 to the 42, at an average tribute of 51. 3s. per ton of dressed ore. We are publing on as fast as possible cutting the ground in the pump sump, preparatory to fixing lift and putting in cistern, &c. We hope to have the lift fixed and in working order next week. The new shaft, to go down from surface on this mine, is sunk 2½ fms. We have delivered the 50 tons of lead ore sold to Nevill Druce on the 2nd inst.

next week. He have delivered the 50 tons of lead ore sold to Nevill Druce of the 2nd inst. We have delivered the 50 tons of lead ore sold to Nevill Druce of the 2nd inst. TEESDALE.—J. Slack: West-End Forehead: There is no material change in the lead ore; the vein still keeps getting a little easier, and swerving more to the west.—West-End Stope, No. 1: There is a great improvement in the bottom part of this working, close into the east cheek. I never saw such a strong body of ore in the mine before. If it continues upwards, as it appears to do, it will yield 4 to 5 tons per fathom.—West-End Stope, No. 2: This working has continued very poor since my last report, though there is better ore to come to about 4 ft forward.—West-End Stope, No. 3: This working continues very good; they have 12 ft. before them in height—good payable ground that is going to yield a great quantity of lead ore, and fair good ore going still further up. Other two men have been set on here. The rise has been only poor since my last report. There seemed some better ore just setting on by the east check, which has been dead all along; another shot or two would reveal unore ore.—East Branch: The vein substance has now been shot off the side, and, though it is widening out very much, there was not so much ore at the top of the working as I expected; the bottom part is very promising, and it seems to be making upwards.—Old Man: Two more old men will start here on Monday getting ore above the forehead. Dressing going on pretty fairly.

much, there was not so much ore at the top of the working as I expected; the bottom part is very promising, and it seems to be making upwards.—Old Man: Two more old men will start here on Monday getting ore above the forehead. Dressing going on pretty fairly.

TEMPLE.—Oct. 8: No change worthy of notice has occurred in the underground workings since the date of last report. The stopes continue to yield the average quantity of ore, and the No. 2 level is being driven with all possible speed. At surface previous to this week the weather was particularly unfavourable, but during the present week it has been very fine indeed, and considerable progress has been made with the new wheel-pit and other surface operations. The dressing and other machinery are working satisfactorily.

UNITED VAN OONSOLS AND GLYN.—James Roach, Oct. 9: The deep adit level driving north on the cross-course has been re-set to six men, at 70s, per fm., on the usual conditions. The north lode has not yet been intersected, therefore it must traverse the mountain in a direction a little more north-east than we expected. The cross-course is a little deranged with a great flow of water from the forebreast, consequently we believe we are very near the lode. The 50, east of Murray's shaft, on the north part of the lode, has been re-set to drive by two men, at 55s, per fathom; latterly a change has taken place here, that part of the lode now carried in driving chiefly consisting of gritsone, containing blende and spots of lead; therefore we expect we are entering into similar ground to that being wrought on tribute some 30 fms. above, a short distance ahead of the present forebreast. In the 50 west, at a point 29 fms. from Murray's shaft, the cross-cut alluded to in my last has been driven south on the lode 33 ft., but the south or hanging-wall has not yet been reached. That portion already driven through is charged with lead more or less throughout, and the forebreast still yields small quantities of lead and witherite, from which water percolates. Th

appearance, now yielding from 10 to 12 cwis, of lead ore per fathom. In the winze sinking under the level the part of lode carried for 6 ft. wide is composed chiefly of dark clay-slate, beds of grit, spar, spots of blende, and lead ore, yielding of the latter 1½ ton per fathom. The machinery is in good order, drawing, &c., progressing satisfactorily.

WEST CRAVEN MOOR.—David Williams, Oct. 9: Blackhill adit level has been extended 103 fathoms east of New Blackhill shaft, and is now within a very short distance of reaching the perpendicular of new west shaft. The vclin in the end is 2 ft. wide, composed principally of limespar, sulphate of barytes, with occasional stones of ore, and letting out a stream of water, and is evidently draining the workings below the 20 at the new west and east shafts. A stope in back of level is worth 20 cwts, of lead ore per fathom.—New West Shaft: A pitch in back of 20, east of shaft, at 54, per ton of dressed ore. On surface we are preparing a good parcel of ore ready for smelting.

WEST WHEAL TOLGUS.—Oct. 9: The lode in the 155, west of Taylor's shaft, is 4 ft. wide, and yielding 1½ ton of copper ore per fathom. The lode in the 145, west of shaft, is 5 ft. wide, and yielding good stones of ore, but not sufficient to value. No. 2 winze in the bottom of this level is yielding 2½ tons of ore per fathom. We have cut through the branch in the 135 cross-cut south; it is 20 in. wide, and producing stones of ore; this branch was cut in the 125 about 2½ fins. before we met with the south part of the lode. The ground in the 135 cross-cut inside this branch is very hard, similar to what it was in the level above. The lode in the 125, west of cross-cut, on the south part, is 5 ft. wide, and yielding 4 tons of ore per fathom, but the ground is a little harder for driving. The lode in the 125, west of this shaft; it was heavad south by the coross-cut south 5 ft.; it is 16 in the producit of the winze in the winze in the winze in the lode in the producit of the winze have consequence of an incr

ng

cross-cut, has improved since yesterday, and is now worth 50%, por fathom. The rich part of the lode is to-day 8 or 9 in. wider that when Capt. Holman inspected the mine yesterday. No other change.

WHEAL GRENYILLE.—T. Hodge, Oct. 9: In the 165 east we are cross-cutting through the lode, and, so far as seen, it is about 10 ft. wide, producing low-price stamping work. In the 160 east the lode is improving, now worth 7%, per fm. The 140 east is worth 8%, per fathom. We commenced to work our plunger-lift on Monday morning last; it is working well.

WHEAL RUSSELL.—J. Bray, Oct. 9: I am pleased to say the lode in the 55 is improved within the last few days in size and character; worth 10 cwts. of good copper ore per fathom—from the present appearance we may expect something good. The lode in the rise above this level is 4 ft. wide, thickly spotted with copper, and looking very promising.

WHEAL UNY.—Wm. Rich, Mathew Rogers, Oct. 4: We have passed through several branches containing thin the 172 cross-cut south, but no lode of importance yet met with. The lode in the 172 end west is worth 10%, per fathom. The 160 end, east of Goodinge's shaft, carries good stones of tin. The 160, west of incline shaft, is worth 12%, per fathom.

WYE VALLEY.—John Kitto, Oct. 4: At the 46, east of the engine-shaft, we are driving the cross-cut towards the ore ground, and hope soon to meet the productive part of the lode. In the sinking below the intermediate level the lode still looks very well, and its produce is fully up to the last valuation—viz. 2 tons of lead ore per fathom. The tribute department is yielding about its usual quantity of ore. Since my last report we have sold to Messrs. Walker, Parker, and Co., 50 tons of lead ore per fathom when the productive part of the lode. In the sinking below the intermediate level the lode sitill looks very well, and its produce is fully up to the last valuation—viz. 2 tons of lead ore per fathom. The tribute department is yielding about its usual quantity of ore. Since my last report we ha

THE LATE CAPT. THOMAS ROBERTS.

It is with great regret that we have to announce the death of Capt. Thomas Roberts, resident manager of the Pestarena Gold Mines in Italy. Capt. Roberts was born at Perranporth, in Cornwall, and after working as a tributer at Great St. George and other mines set out for the United States at the age of 19. He turned his attention to gold mining in North Carolina, and was subsequently engaged in cobalt mining in Connecticut till 1857, when he returned to Europe. In 1858 he proceeded to Northern Italy, and making that country his home became manager of several lead, copper, and gold mines. He was chief mine captain at the Pestarena United Gold Mines from the commencement, and in 1874 was appointed resident manager by Messrs. John Taylor and Sons. He held this office till his death.

To Capt. Thos. Roberts, and his brother James, belongs the credit of having invented the so-called "Francfort Mill," an improved form of arrastra, which is found to be most successful in extracting the gold from the pyritous Italian ores. Capt. Roberts was thoroughly fitted for his post; he was not only a practical miner but also a good engineer, and well versed in putting up machinery. A more thoroughly trustworthy and conscientious man could not be found, and Capt. Roberts earned the esteem of all who knew him. His loss is a It is with great regret that we have to announce the death of

Capt. Roberts earned the esteem of all who knew him. His loss is a severe one both to his family and friends, and it is certain that the severe one both to his tamily and friends, and it is certain that the Pestarena Company can never have a manager more devoted to its interests. Capt. Roberts, after suffering for many months from an internal tumour in the chest, resolved in Angust last to return to England, whither he had previously sent his family, in order to obtain advice from English doctors, and the careful nursing of his wife and daughters All their efforts, however, were unavailing, and Capt. Roberts succumbed to the malady on Sept. 28, in his 55th year. He leaves a widow and seven children. leaves a widow and seven children.

FOREIGN MINES.

FOREIGN MINES.

RICHMOND CONSOLIDATED.—Telegram from the mine at Eureka, Nevada: Week's run, one furnace, \$33,000, from 484 tons of ore. Refinery, \$36,000.

—R. Rickard, Eureka, Nevada, Sept. 17: The 200 cross-cut has been drifted 24 ft. without any matrial change in the ground. Work in the end of this drift has been suspended for the time being, and the men put to drift on ore indications we passed through about 20 ft. from the present end. The 600 west cross-cut from south fissure drift has been advanced 10 ft.; the ground is harder, consequently less ground has been driven during the past week. A fise has been started in the back of the 600 west drift, and is now up 23 ft. all the distance in low grade ore, and is looking very promising to open pay ore shortly. The winze below the 600 is down a total depth of 34 ft.; the present bottom is looking very favourable for opening into ore. The ore body in No. 13 chamber is not opening out quite so well as we expected; as far as we have stoped the ore body is short. The 600 west is at present in limeatone of very good appearance. All other parts of the mine are without any alterations. The machinery both in mine and furnaces is working very well, with the exception of one of the blowers, with which we had an accident, which obliged us to stop it to repair.

DON PEDRO.—Oapt. Vivian reports, under date Sept. 10, as follows: Mine: No. 1 Incline Sump-Shaft; Repairs here are still being carried on with a full pare of men, and without interruption. We are making fair headway in No. 2 incline drawing-shaft, and intend to communicate same with the 40 cross-cut before forking the water deeper in No. 1 incline sump-shaft; so as to prevent the same from being carried by the water through said cross-cut, which would be very injurious to the pitwork.—New Lode at Bryants: In the last 9 ft. stoping we have met with crushed ground, which is no doubt caused by the old workings below; this of course has disordered the lode for the time, also the vein, but I presume it will only be t

throughout the mine is in good condition, and working well.
Telegram dated Rlo, Oct. 9, received Oct. 10: Produce for the month (September) 1300 oits

OOLOMBIAN HYDRAULIC.—W. 8. Welton, Aug. 9: Malpaso: Run No. 60 from July 18 to Aug. 16, 29 days, during which washing has been carried on for 515½ hours, has produced from the upper portion of the sluice 8897-32 (1804), the cost for this period being \$897-90. The gold obtained from this run was in very coarse grains, and the amalgam produced \$8 peror. The gravel has not yet become so soft as wewers led to believe it would, being as yet soft in parts, hence the low returns; there is, however, a considerable improvement in the produce, and we may look for better results as we get more ahead. At one point the tops of granite boulders have appeared, and this indicates that the bed-rock cannot be far off. We have evidently crossed the channel, and are reaching the rise in the south side. Both sides of Malpaso channel can now be seen, and judging from the slight curvature of the beds of gravel, the depth of the centre of the channel cannot be very great. In my opinion there appears to be every reason to believe that by bringing in the sluice 25 ft. below its present level the entire deposit may be bottomed. I am very anxious to sink a shaft and ascertain the depth of the deepest part of the channel, but there has been very few peons, and so many large rocks to move, that I have not yet been able to commence this work.—Malbar: On the morning of the 14th inst. the water was turned on at the new opening, and since then the bed-rock has been uncovered, and the whole of the gravel from the bed-rock to the top of the bank can be seen. At this point there is no pipe-clay, and the gravel is very similar in appearance to that at Malpaso. A delay of ten days in getting the water in was caused by a very hard horse of bed-rock presenting itself on the line of the sluice; this rock was so hard that great difficulty was experienced in boring it. Owing to this, and the expense and de

diameter, and it will take some time to remove these, and get a clear space to cave the gravel on SENTEIN.—Oct. 4: The manager reports as follows:—During the week we have had no change at the mine worthy of remark. Have broken 120 tons of silver-lead and blende ore, and we should have broken a greater quantity, but many of our miners have been engaged putting in timber in different parts of the mine and laying the tramroad in the fit. Barbe level, about 60 fms. of which is now completed, and we have about 25 fms. more to place. We are still driving the cross-cut to the lode in this level, but up to the present we have not reached the main part of the lode. At La Souquette we have fixed the windlass, and have commenced to draw the debris and water from the winze. We hope very shortly to be abe to report what is in this part of our concession. There has been delivered to the dressing-floors this week 209 tons of ore.

No Safety in Safety-Lamps-Remarkable Mining Revela-Some remarkable revelations respecting the ability of miners to tamper with safety-lamps, which litherto appeared to have escaped the notice of magistrates, transpired during the hearing of a case before Mr. J. Kaye and Mr. J. Dyson at the Barnsley Town Hall. A youth named John Gooth, aged 16 years, a hurrier in the employ of Messrs. Pope and Pearson, owners of the Woolley Colliery, was charged with unlocking a safety-lamp, and exposing the light, in a mine exclusively worked with safety-lamps, contrary to the rules.—Mr. Parker, solicitor, prosecuted.—Charles Waring, the lamp inspector at the colliery, deposed to being in the workings on the 28th ult. when he met a lad named John dahead, and found that he had a lamp which was not locked. He asked if the lamp had been extinguished. He replied it had, and that defendant had re-lighted it by opening it with a lamp hook.—In answer to Mr. Kaye witness and flavy lamps were used, and any man could unlock them, light them, and lock them again with the lamp was taken to the lamp station, and there appeared to him to be no called the secures in the Davy and the considered to him to be no called the secures in the Davy and the considered to him to be no called the secures in the Davy and the considered the secure of the considered it a most important case, as he always thought they could not prevent their doing such an act, when they knew they would not be detected.—The Bench their light,—Mr. Kaye said the considered it a most important case, as he always thought they could not prevent their doing such an act, when they knew they would not be considered it a most important case, as he always thought they could not be considered it a most important case, as he always thought they could not be considered it a most important case, as he always thought they could not be considered it a most important case, as he always thought they could not be considered it a most important case, as he always thought they could not be considered it a most important case, as he always thought they could not be considered it a most important case, as he to tamper with safety-lamps, which hitherto appeared to have escaped

would have sent him for the full term of imprisonment. They were of opinion that no inspectors could prevent explosions occurring if lamps could be opened and lighted in the way described.—Alanchester Courier, Oct. 7.

that no Inspectors could prevent explosions occurring it lamps could be opened and lighted in the way described.—Manchester Courier, Oct. 7.

WHEAL BASSET—STARTING OF NEW 80-IN. ENGINE.—A fine 80-in. engine by Messrs. Harvey and Co., of Hayle, was started at North Basset on Tuesday, and named "Waddington's Engine," in honour of the gentleman through whose exertions the mine has been set going. Upon the steam being admitted the engine went steadily off, and pumping was commenced, all present expressing the warmest satisfaction, and seconding the wish of Mrs. Bone, who christened the engine, that the engine might "be the means of giving employment to miners for generations and large profits to the adventurers and to the lord." It is a powerful 80 in. engine, with a 10 ft. stroke in the cylinder, and 9 ft. in the shaft, and has cost about 1840!. It is said to be the cheapest and best engine in the county, and it certainly does the highest credit to the makers. Mr. Waddington, in reply to the toast "Success to Waddington's Engine," said that he had spent some time in searching for the last report on North Basset sett, and the last one he found was dated June 19, 1866, the month following the Overend and Gurney failure. This failure created so great a panic that everybody wished to get out of everything involving the least liability, and he remembered buying 100 shares in Wheal Agar, at 5s. per share. Then came the North Basset collapse, and he now had to thank Alf. Bawden, of West Basset, for a remark which had guided him very much in all that he had done, and it was this, that when the order came down to stop North Basset, Capt. George Davey was startled and surprised, and exclaimed, "The best mine in the district is stopped." Bearing this in mind, and going through the reports which he had seen, he never had been able to understand what could have induced people to give up so valuable a property. Secing what the man who would not spend his money there had no love of mining and no love of enterprise. For himself h

Original Correspondence.

CARDIGANSHIRE MINING-THE CAMBRIAN MINES DISTRICT.

DISTRICT.

SIR,—The discovery of a rich and extensive deposit of copper at Esgair-firaith, as referred to by your correspondent "W. L." in last week's Journal, must go a long way to dispel the illusion which is commonly entertained that the clay-slate of Cardiganshire is not "congenial" to copper. I think it will be found that the whole of the belt of ground extending north and south of the Cambrian mines is more or less copper producing. The lodes cross this belt at right angles to it, bearing principally east and west, and indications of copper are to be seen in many places at surface. It may not be generally known that a very rich deposit of copper was discovered near Glasllyn Pool, and worked by some local parties about 20 years ago. This deposit, although in the neighbouring county, is only some three Glasllyn Pool, and worked by some local parties about 20 years ago. This deposit, although in the neighbouring county, is only some three or four miles to the east of the Cambrian Mines, and in apparently the same stratification. About 100 tons of copper were broken from very shallow workings, and simply "bucked" down in a very primitive fashion, fetching (I was informed by one of the owners) 201. per ton, being at the rate of 16s. per unit—the then price of copper. These workings were abandoned simply because they got below water level, but the course of ore was seen going down in the bottom of a winze as good as ever, and I am of opinion that by driving west on the course of the lode another rich deposit of ore will also be met with.

Now, at Esgair-firaith Mine there is a level about half a mile or so. Further east than the persent mine, and in this level, which is very shallow, there is to be seen one of the finest lodes a Cornish miner would wish to see. It is 10 ft. wide or so (I am speaking from memory), and filled with mundic; at the time I saw it I strongly recommended the then proprietors to sink a winze on it for a few fathoms, to see what it would produce in depth. This level could be driven up into the old mine; of course, it would be some distance, but it would gain back by going west, and would probably pay for itself, and even lay open backs for stoping. I do not for a moment suggest that the present workings ought to be stopped. I merely mention the fact of this level to show that there is good cause to believe the copper-bearing stratum extends for a long distance east of the present Esgair-ffraith Mine. In the other discovery which I have mentioned—Glasslyn—little or nothing has been done for some years, but a good deal of money was spent in developing another lead-bearing lode, but with the usual fatuity which seems to accompany mining enterprise they have driven a deep Now, at Esgair-ffraith Mine there is a level about half a mile or seems to accompany mining enterprise they have driven a deep eross-cut to within about 5 fms. of what at surface appeared to be a splendid lode, containing solid lumps of lead, and then stopped just when they were on the eve of success. I believe these workings are about to be resumed, but, at the same time, I hope the copper mine will be given a fair trial, both by driving eastward and by sinking.

copper mine will be given a fair trial, both by driving eastward and by sinking.

I might mention that copper has also been found at Cafartha Mine, which adjoins to the south of these lodes, and is on one of the Cambrian lodes, most probably the same lode at Esgair-ffraith; this lode also passes through the Glasllyn sett, and in common with the parallel lodes—Esgair-galed and Dyliffe—could be cut by a deep cross-cut at a back of over 100 fms. Capt. Jenkins told me that the Glasllyn Company intended to commence the cross-cut. This property is very extensive, comprising some 1800 acres of mineral lands, and is traversed by seven well-known mineral lodes, therefore to give it a fair trial a large capital is necessary. There is ample water-power, and, therefore, boring machines worked by water-wheels ought to be introduced, and including the expenditure necessary for crushing and dressing purposes a working capital of from sary for crushing and dressing purposes a working capital of from 20,000*l*. to 25,000*l*. ought to be provided, and with minerals rising in price as they are now doing rapidly, this outlay would yield a very andsome dividend.

handsome dividend.

Returning to Cardiganshire—whose ability to produce copper I really started this letter to vindicate, and I hope some of your correspondents will back me up—there has been some very nice copper found at Blaen Caelan Mine, which is to the west of the Cambrian Mines, and there is a very fine copper lode also to be seen at the old Camdur Mawr Mine, but it has never been fairly tried in depth at all. One of the old agents told me many years ago he believed an immense deposit of copper would be found underneath the immense mass of gossan to be seen at surface, and, in fact. he believed an immense deposit of copper would be found underneath the immense mass of gossan to be seen at surface, and, in fact, the very rocks are to be seen cropping out at surface, with pieces of lode attached, filled with prills of copper ore. This great lode is the Bronfloyd lode, and may be traced eastward for miles through Llechwedd Mawr (Montgomeryshire), Hyddfen, &c., towards the Van Mine, if not into it. There is situated between this lode and the Cambrian lodes are two splendid lodes—South Cambrian and another; I forget the name of it, but I think these lodes are lead-bearing lodes. I wish Capt. Glanville (Cambrian Mines), who is an old Cornish miner, and really knows something about copper lodes which local agents do not would give us his ideas as to lodes, which local agents do not, would give us his ideas as whether Cardiganshire may claim to be a copper-producing carriet generally, or if he thinks that Esgair-ffraith, which I kn

nace or vessel in which it can be conveniently held in a suitable molten nace or vessel in which it can be conveniently held in a suitable molten state. The bichromate of potash or other compound or compounds may be added by being blown in in powder by a blast applied as in the Bessemer process, or it may be simply mixed into the molten metal; it should however in all cases be thoroughly intermixed, and the temperature should be such as to keep the metal sufficiently fluid for the mixing to be effectively performed. The proportion of bichromate of potash or other compound will vary in each case with the particular qualities of steel desired, and also with the proportion of the impurities present in the iron, smaller proportions being used for milder or more ductile steels, and larger proportions for harder steels. It is believed that 5 parts by weight for every 100 parts of the iron will be a proportion yielding a hard steel, and that in general smaller proportions will be found to answer best.

THOMAS THOMAS, MINERAL AGENT AND ASSAYER

COPPER ORE YARD, STRAND, SWANSEA.

Sales and Purchase of Minerals and Metals arranged. Assays and Analyses carefully conducted. References given.

C. A. SCOTT, METAL AGENT AND BROKER, 7, PARADE, BIRMINGHAM.

THE METAL TRADE.

FOR COPPER, TIN, LEAD, &c., apply to—
MESSRS. PELLY, BOYLE, AND CO.,
SWORN METAL BROKERS,
ALLHALLOWS CHAMBERS, LOMBARD STREET, LONDON.
(ESTABLISHED 1849.)

The Mining Market: Brices of Metals, Ores, &c.

Pig. 6ms, f.o.b., Clyde., 2 19 3 - 2 19 6 Bars, Welsh, f.o.b. Wales 5 10 0 - 5 15 0 "" in London 6 5 0 0 "" in Tyne or Tees 6 0 0 0 "" Swedish, London 9 0 0 - 0 Rails, Welsh, at works 5 10 0 - 8 10 Plates, ship, in London 6 0 0 - 6 10 Nail rods, Staff., in London 6 0 0 - 6 15 Steek. English, spring 13 0 0 - 9 0 0 Swedish, keg 13 0 0 - 4 0 0 Ewalds, keg 13 0 0 - 2 0 Beat selected 70 0 0 - 70 0 Sheets, Staff. 10 London 6 0 0 - 6 15 Steek. English, in London 6 0 0 - 6 10 Wallaroo 71 0 0 - 71 0 0 Burra, or P.C.C. 70 0 0 - 71 0 0	N.	IETA.	L MARKET-LONDON, OCT. 10, 1879.
Pig. 6MB, f.o.b., Clyde., 2 19 3- 2 19 6 Scotch, all No. 1 - 3 7 6- 3 12 6 Bars, Welsh, f.o.b. Wales 5 10 0- 5 15 0 in London 6 5 0 in Stafford., 6 5 10 - 7 0 0 in Tyne or Tees 6 0 0 Swedish, London 9 0 0 Swedish, London 9 0 0 Plates, ship, in London 6 0 0- 6 10 Bleets, Staff., in London 8 0 0 Plates, ship, in London 6 0 0- 6 10 Mopp, Staff., an Y 7 8- 7 10 Nair rods, Staff., in London 6 0 0- 6 15 Bars, ship, in London 6 0 0- 6 10 Streat. English, spring 13 0 0-19 0 0 Streat. English, pig. common. 16 0 0 , fag. ham. 15 0 0 , g. L.B. 16 5 0 , white 28 0 0-29 0 0 Spanish	IRON. £ s.d. £	s. d.	
Scotch, all No. 1	Pig. 6MB, f.o.b., Clyde., 2 19 3- 2	19 6	English, ingot, f.o.b 86 0 0
Bars, Weish, f.o.b. Wales 5 10 0 - 5 15 0 "" in London 6 5 0 - 7 "Stafford. " in Tyne or Tees 6 0 0 - 9 "Swedish, London. 9 0 0 - 8 Rails, Weish, at works 5 10 0 - 6 0 0 Sheets, Staff., in London 8 0 0 - 7 Plates, ship, in London 8 0 0 - 7 Hoops, Staff., in London 6 0 0 - 6 10 Nail rods, Staff., in London 6 0 0 - 6 10 Rails, Weish, tworks 5 10 0 - 6 0 0 Streets. English, spring. 13 0 0 - 19 0 0 Streets. English, spring. 13 0 0 - 19 0 0 Streets, 13 0 0 - 2 0 0 Regish, keg. 13 0 0 - 2 0 0 Regish, keg. 13 0 0 - 2 0 0 English, pig, common. 16 0 0 - 9 0 0 """ """ """ """ """ """ ""	Scotch, all No. 1 3 7 6- 3	12 6	, bars , 87 0 0
", Stafford, ", 6 15 0 - 7 0 0 ", in Tyne or Tees	Bars, Welsh, f.o.b. Wales 5 10 0- 5	15 0	
, Stafford.,	in London . 6 5 0-		Australian 81 10 0
## Corper Corper	., Stafford., ., 6 15 0- 7	0 0	
Realis, McIsh, at works 5 10 0 - 6 0	in Tyne or Tees 6 0 0-		Straits 82 0 0
Rails, Welsh, at works . 5 10 0 - 8 0 0 Sheets, Staff., in London . 6 0 0 - 8 10 0 Nail rods, Staff., in London . 6 0 0 - 8 10 0 Nail rods, Staff., in London . 6 5 0 - 6 15 0 STEEL. English, spring 13 0 0 - 19 0 0 Swedish, keg 13 0 0 - 4 0 0 Swedish, keg 13 0 0 - 4 0 0 Swedish, keg 13 0 0 - 4 0 0 Swedish, keg 13 0 0 - 4 0 0 Swedish, pig, common 16 0 0 - 2 0 0 LEAD. English, pig, common 16 0 0 - 2 0 0 M. W. B (nom.) - 3 0 0 - 4 0 0 M. W. B (nom.) - 4 0 0 0 0 M white 28 0 0 - 29 0 0 M pipe 17 10 0 - 17 15 0 M pipe 17 10 0 - 17 15 0 M pipe 17 10 0 - 17 15 0 M pipe 17 10 0 - 19 0 0 Spanish 15 10 0 - 2 0 0 Spanish 15 10 0 - 2 0 0 Metal, per cost. per ton .24 0 0 - 28 0 0 QUICKHIVER. Flasks of 75 lbs., ware 6 5 0 (nom.) SPKLTER. Blesian 18 17 6 - 19 5 0 English, Swansea 18 17 6 - 19 5 0 English, Swansea 24 10 0 - 25 0 0 Black Taggers, 450 of 3 30 0 0 - 2 0 0 Black Taggers, 450 of 3 30 0 0 - 2 0 0		*****	COPPER
Blacks, Staff., in London 8 0 0 - 0 0 0 0 0 0 0		0 0	
Plates, ship, in London	Sheets, Staff., in London 8 0 0-		
Hoops, Staff. 7 7 8 - 7 10 0 STEEL. English, spring 13 0 0 - 19 0 0 Swedish, keg 30 0 0 - 40 0 0 Swedish, keg 13 0 0 - 2 0 LEAD. English, pig, common 16 0 0 "" LEAD. English, pig, common 16 0 0 "" LEAD. English, spring 13 0 0 - 10 0 Complete 17 10 0 - 17 15 0 "" W.B (nom.) "" white 28 0 0 - 20 0 "" patent shot 18 10 0 - 19 0 0 Spanish 15 10 0 Metal, per cowt 18 0 0 - 20 0 OugutsHIVER. Flasks of 75 lbs., ware. 6 5 0 - (nom.) Brighish, Swansea 19 0 0 Blesian 18 17 6 - 19 5 0 English, Swansea 19 0 0 Blesian 18 17 6 - 19 5 0 Blesk maggers, 450 of 3 30 0 0 Black Taggers, 450 of 3 30 0 0 Black Taggers, 450 of 3 30 0 0	Plates, ship, in London . 6 0 0- 6	10 0	
Nail rods, Staff., in Lon. 6 5 0 - 6 15 0 Wallaroo 71 0 0 - 72 0 Street. English, spring 13 0 0 - 19 0 0 Swedish, keg 13 0 0 - 40 0 0 Swedish, keg 13 0 0 - 2 Labo Labo Labo Labo English, pig. common. 16 0 0 - 2	Hoops, Staff., 7 7 6- 7	10 0	
Steel	Nail rods, Staff., in Lon. 6 5 0- 6	15 0	
English, spring			
Seedish, keg		0 0	
PROSPHOR BRONZE. PROSPHOR BRONZE. PROSPHOR BRONZE. Bearing metal. & 2105 0	, cast30 0 0-40	0 0	
Fig.	Swedish, keg13 0 0-		
Exab. Exab. Example Example			
N. N. N. N. N. N. N. N.			Bearing metal £105 0
Brass Brass Wire State State	English, pig, common16 0 0-	colode	Other alloys £110 0 0- 125 0 (
W.B. (nom.) Wire 7 d.	T D 10 5 0	-	BRASE
Sheet and bar.16 15 0-17 0 0 Pulpe	W D (nom)	-	
Sheets S	sheet and how 16 15 0 17	00	
red	pipe	15 0	
white	red	-	
patent shot 18 10 0-19 0 0 Tin-Piarriss.* per box.	white28 0 0-29	0 0	
Bpanish	natant shot 19 10 0-10	0 0	
Nicker. Metal, per cont. 18 0 - 20 0 0 0 0 0 0 0 0 0	Spanish15 10 0-		TIN-PLATES.* per box.
Metal, per owt.	NICKEL.		Charcoal, 1st quality 1 4 0-(nom.)
Ore, 10 per cent. per ton.24 0 0-28 0 0 QUICKSHAYER. Flasks of 75 lbs., ware 6 5 0 (nom.) Blesian	Metal, per cwt18 0 0-20	0 0	,, 2nd quality 1 2 0
QUICKSILVER QUICKSILVER , 2nd quality 0 18 0 - ,	Ore, 10 per cent. per ton.24 0 0-26	0 0	Coke, 1st quality 0 19 0-
Flasks of 75 lbs., ware. 6 5 0 (nom.) Bretter. 18 17 6-19 5 0 English, Bwansea 19 00- 25 0 0 Elack per ton 17 10 0- 3 at Liverpool 1 12 0 0- 5 Black flagers, 450 of 3 12 0 0- 5 Black flagers, 450 of 3 30 00- 5 14 × 10 3 3 0 00- 5			
SPELTER Canada, Staff. or Gla. 12 0 0		om.)	Plack neg ton 17 10 0
Bheet sinc			Canada, Staff. or Gla.)
English, Swansea		5 0	at Liverpool 12 0 0
Sheet zinc	English, Swansea19 0 0-	-	Black Taggers, 450 of) an an
	Sheet zinc24 10 0-25	0 0	14 × 10 30 0 0

Canada; IX 6s. per box more than IC quoted above, and add 6s. for each X. Terne-plates 2s. per box below tin-plates of similar brands.

REMARKS.—The control of our markets is almost entirely in the

"At the works, is, to is, 6d, per box less for ordinary, 10s, per ton less for Canada, IX & per box more than IC quoted above, and add 6s, for each X. Terne-plates 2s, per hox more than IC quoted above, and add 6s, for each X. Terne-plates 2s, per hox more than IC quoted above, and add 6s, for each X. Terne-plates 2s, per hox more than and or excless movements are the hands of speculators, and wind and reckless movements are the natural result. Such a period of inflation as that recently experienced has not been known for the last seven years, and during the last week or two a rampant speculation has set in. A very large amount of speculative business has been transacted, and prices have been pushed up to an extraordinary height. The change which has taken place has been effected in a wonderful short space of time considering the great increase in prices. Whether the present value of metals will be maintained is a being influenced by the extensive operations of the speculation removing all in an upward direction, and their position daily becoming more perilous. Legitimate trade forms a very small percentage of the amount of business now doing, contracts for the most part being for speculative account. The speculation seems between the process of the process of the second provided the parts of the world have failed to accomplish. It is certainly a fortunate circumstance that America has come forward once again exclusive the process. The purchases that have been effected for America, and then America first began to buy, the demand will doubtless slacken, and perhaps altogether cease. The purchases that have been effected for America naccount are scarcely of a bount fide character, and it may be that a large proportion has been boughly by a complete the present instead of the process. The purchase that have been effected for America and continuence of the process of

bars rose to 641. 10s., and continued animated also on the following day, but on Wednesday a relapse again occurred, and quotations fell to 532, per ton for cash. Yesterday, the Indian Exchange having somewhat improved, it was generally thought that a stronger tone would have prevailed, especially as additional orders were received at higher limits, but as a few sellers increase took place in quotations. As large purchases were effected some short time ago for India at about the minimum of the market, it was scarcely expected that those markets would respond to the rise on this side. It is, therefore, a very important feature, and one which may aid in giving a decidedly favourable turn to the recent movement. The want of orders for manufactured has frequently proved the weakest point of the market, but the receipt of fresh orders the rise longer than they would otherwise have done. Should the charters prove small it will encourage speculators to persevere in their efforts to carry the prices beyond their present range.

IRON.—The market for pigs is still excited, and prices continue to fluctuate to a considerable extent. The improvement which has taken place is chiefly for export to America, but the rise in price is due more to the action of speculators than to the legitimate demand, and it is even very doubtful whether the large quantities which are being shipped to America are purely of a bona fide character, and also whether they will be continued much longer. The demand for America has helped forward the market, and orders are now more freely received from other raw material. Owing to the rise in value the men in some districts are reported to be becoming dissatisfied with their earnings, and consequently if sellers push up their prices much more three will be a repetition of the wages disputes. This question might very well have been disposed of while the market emained quiet, as there was the market in the have a superior of the week being quoted at 49s. to 50s., and No. 4 forges at 47s. 6d. to 49s. Merch

For the week ending Oct. 4, 1879

For the week ending Oct. 5, 1878 Increase
Total increase for 1879
Imports of Middlesborough pig-iron into Grangemouth:
For the week ending Oct. 4, 1879
For the week ending Oct. 5, 1878 8,305 In blast Oct. 4, 1879 59
In blast Oct. 5, 1878 90
N.—This market has been further advanced, and during the

week 85l. was paid for forward delivery, and 84l. cash for foreign; nevertheless they have since slightly receded, about 83l. per ton now being asked. This metal will, doubtless, soon become dearer, as there being asked. This metal will, doubtless, soon become dearer, as there is a probability of a diminished supply of Banca as well as Australian. The market for English is steady, and prices have advanced, blocks and ingots now being quoted at 86L per ton.

LEAD.—Sellers of this metal are very firm in their quotations, and since our last prices have risen to the extent of 10s. to 15s. per ton, to-day's price for pig being 16L, and sheet 17L. There is a fair demand, and orders are becoming rather more numerous.

SPELTER.—There is no advance in the value of this metal, nevertheless last week's figures are held with considerable firmness, and buyers experience difficulty in placing their orders at ruling rates.

STEEL.—There is not much change in the condition of this market. Prices, on the whole, keep moderately steady, with a fair demand for some descriptions.

mand for some descriptions.

TIN-PLATES.—A fair business is doing at slightly higher prices.

QUICKSILVER was reduced on Tuesday to 6l, but this looked a very extensive demand from all quarters, and importers successively put their price to 6l. 2s. 6d. and 6l. 5s. At the close this figure was refused, and there is every indication of a further and a considerable rise. This is the only metal which has not hitherto participated in the upward movement, and the price is so low as to justify the atten-tion of capitalists.

tion of capitalists.

Messrs. Pixlex and Abell...—Gold: The Bank has only received 12,000l. during the week, and this amount consisted of sovereigns; all other arrivals have been taken for export to America and Egypt, together with 332,000l. with drawn from the Bank. The steamer which left Havre on the 4th inst, for New York took 450,000l. in gold, and the demand for America still continues. The P. and O. steamer takes to-day 150,000l. to Alexandria.—Bilvers: Since our last the market has improved, the demand being good for India and the Continent. The specie by the Archimedes from the Brazils realised 51%d. per ounce, the next day 513/d. was obtained, and vesterday on the announcement of the increased rate at which the India Council drafts had been placed a further rise to 52d. per ounce took place, and the price may be considered tolerably firm at this quotation. We have received during the week 49,500l. from the Brazils, 4500l. from New York, and 52,000l. from the Pacific: total, 116,000l. The last amount brought by the Liguria was sold at 52d. per ounce. The Nile has taken 9740l. to the West Indies, the Britannic 11,000l. to New York, and the P. and O. steamer 124,000l. to Bombay.

The continued rise in metals has caused great excitement in the MINING SHARE MARKET this week, and tin shares have been the rage, notwithstanding the heavy debts on some of the mines. The advance in quotations, however, have been mainly caused by speculative purchasers, and may cool down again on realisations. It is estimated that since the rise in metals commenced thirteen mines alone have risen nearly 260,000*l*. in market value.

The mines dealt in have included Dolcoath, Carn Brea, Crebor,

Tankerville, Van, Roman Gravels, South Condurrow, West Frances, Marke Valley, East Caradon, Parys Corporation, Wheal Basset, South Frances, Devon Great Consols, East Lovell, Herodsfoot, Leadhills and others.

TIN.—The standard for ore has advanced since our last 51, per ton. making a rise of 171. per ton since June, and great excitement has existed in tin mines, many of which have risen 20 and 30 per cent. since last week. Carn Brea shares have advanced to 47\frac{1}{2}, 50; the accounts at the meeting showed a profit of 589l. 18s. 10d. on four months' working, and a debit balance of 12,563l. No call was made. The tin sold (329 tons) realised 12,446l. 16s. 9d.; copper, 80l. 14s.; arsenic, 118l. 19s. 3d. The costs were 12,110l. 17s. 6d. The agent hopes to make 1000l., or perhaps 2000l., the next four months, should the price of tin keep up. Tincroft, 12\frac{1}{2} to 13\frac{1}{2}; at the meeting here the sales of tin for four months (209 tons) realised 7695l., and a profit of 206l. 15s., and a balance due to the bank of 6000l. No call was made, as the agent hoped the debt would in time be wiped out without it. The mine has not looked so well for a long time. East Pool till. since last week. Carn Brea shares have advanced to 471 out it. The mine has not looked so well for a long time. East Pool, 16½ to 17½; at the meeting here a dividend of 9s. per share was declared. The accounts showed a profit of 38821. 15s. on the quarter. The costs were 74451.16s. Returns, copper ore, 10731.7s.; tin, 92411.18s.; halvans, 1111.; arsenic, 4501.: total, 10,8861.1s. The report of the mine was very satisfactory. Dolcoath shares have advanced from 35 to 40, 42½. Wheal Owles account shows a loss of

1191. on four months working, and a balance against the mine of 18,3161. A call of 51. per share (4001.) was made. South Conductors

1191. on four months working, and a balance against the mine of 18,3161. A call of 51. per share (4001.) was made. South Condurrow shares have risen to 13, 14. South Frances shares have risen from 8 to 9\frac{1}{2}, 10. West Frances shares have risen from 6 to 8\frac{1}{2}, 9\frac{1}{2}; at the meeting a call will probably be made. Cook's Kitchen, 2\frac{3}{4} to 3\frac{1}{4}; East Lovell, 3\frac{1}{2} to 3\frac{1}{4}; West Basset, 7\frac{1}{2} to 8\frac{1}{2}; Wheal Agar, 3\frac{1}{2} to 4; Wheal Basset, 3 to 3\frac{1}{4}; Wheal Grenville, 4\frac{3}{4} to 5\frac{1}{4}. Wheal Kitty (St. Agnes) shares have advanced from 10s. to 1\frac{1}{2}, 2. Wheal Peevor, 14 to 15; Wheal Uny, 1\frac{1}{4} to 1\frac{3}{2}.

COPPER is steadily advancing, and copper mines in fair demand; and copper mines are more steadily advancing than tin. Marke Valley shares have risen to 1\frac{1}{4}, 1\frac{1}{4}; at the meeting, held in Salisbury on Wednesday, the accounts showed—Working costs to August 23, 2182\frac{1}{2}. 16s. 3d. Sales of ore to Aug. 21, 2316\frac{1}{2}. 11s. 10d., and the balance in hand at last meeting (205\frac{1}{2}. 6d.) has been increased to 233\frac{1}{2}. 15s. 3d. The recent and continued rise in copper ore will, the agents contemplate, be a material benefit to the mine. East Caradon, 1\frac{1}{4} to 1\frac{1}{4}; at the meeting a call of 2s. 6d. per share was made: 180 shares were relinquished, and sold for the benefit of the company at 19s. per share. The winze sinking below the 150 has been sunk 12 fms. 4 ft. 6 in., and has 6 fms. more to be sunk before it reaches the South Caradon lode, presuming the latter keeps the same underlie. This work, upon which the existence of the mine depends, will, it was said, occupy six months, with nine men. Mellanear, 3\frac{1}{4} to 4. Wheal Crebor shares opened 4to 54 huves and after various of the care of the mine depends, will, it was said, occupy six months, with nine men. derlie. This work, upon which the existence of the mine depends, will, it was said, occupy six months, with nine men. Mellanear, 3½ to 4. Wheal Crebor shares opened at 5½, buyers, and after various fluctuations leave off 4 to 4½. The setting report for the month values the various points in operation at 272l. per fathom in the aggregate. The lode in the 120, east of cross-cut, is valued at 80l. to 90l. per fathom; the end west of cross-cut, 60l. per fathom; the 108, east of cross-cut south 40l. per fathom (now worth 20l.) A stope in back of the 108, on new lode, set to six men at 5l. per fathom, is worth 70l. per fathom. Devon Great Consols, 5 to 5½; Bedford United, ¾ to ½. East Crebor shares are quoted 1½ to 1¾. Morfa Du, 15s. to 17s. 6d.; Parys Corporation, 15s. to 17s.; South Caradon, 50 to 55. South Crofty (subdivided shares), 7½ to 8. West Seton, 40 to 42½; West Tolgus, 26 to 28. New Cathedral, 1 to 1¼; the new 60-in. engine starts to-morrow. starts to-morrow

Tolgus, 26 to 28. New Cathedral, 1 to 1½; the new 60-in. engine starts to-morrow.

Lead, we understand, is up 1l. per ton, and several lead mines have advanced since our last. Van rose on Thursday from 16 to 17,18. The 105 west is worth 1½ ton per cubic fathom. The sale next week will be 200 tons of lead and 100 tons of blende. Roman Gravels also rose on Thursday from 8 to 9, 9½. The sale of ore on that day—200 tons—realised 1940l. Tankerville have been in demand, and leave off 4½ to 5. The 220, east of shaft, is worth 1½ to 2 tons per fathom. Great Laxey, 16½ to 17½; the directors here have declared a dividend of 5s. per share. Pateley Bridge, ½ to ½; the 40 east, on Rake vein, is worth 2 tons per fathom, and the 40 west 4 tons. Denbighshire, 1½ to 2; East Van, 2½ to 2½; Glenroy, 7s. 6d. to 12s. 6d.; Gorsedd and Merllyn, 2½ to 3; Great Holway, 4½ to 5. Herodsfoot, 2½ to 2½; the lode in the shaft is looking well. Leadhills, 2½ to 2½; North D'Eresby, 1 to 1½; Clementina, 1 to 1½; West Chiverton, 3½ to 4½; West Holway, 1½ to 1½; Glementina, 1 to 1½; West Chiverton, 3½ to 4½; West Holway, 1½ to 1½; Grogwinion, 2½ to 3½; Hartington Moor, 1½ to 1½; Caron, 2 to 2½; Grogwinion, 2½ to 3½; Hartington Moor, 1½ to 2; Crosswood, 1 to 1½; Mawston, 1½ to 2. Frongoch, 2 to 2½; this mine has sold 150 tons of lead, at 9l. 1s. 4d. per ton, and 100 tons of blende, at 3l. 16s. 6d. Red Rock, 1½ to 2; South Cwmystwith, ½ to ¾; West Wye Valley, ½ to ¾; Wye Valley, ½ to ¾; Gwernymynyd, ¼ to 4½. Pandora, 12s. 6d. to 15s.; the 33 end south, on new lode, is yielding some good quality blende, intermixed with good stones of lead. The stope in the same level, north of No. 1 winze, is worth 3 tons of lead and ton 1 of blende.

Foreign Mines.—Almada and Tirito, ½ to ¾; Blue Tent, 2 to 2½; Care Copper. 29 to 30: Chorales. ½ to ½: Clorado, 1½ to 1½; Dor

3 tons of lead and ton 1 of blende.

FOREIGN MINES.—Almada and Tirito, \(\frac{1}{4}\) to \(\frac{3}{6}\); Blue Tent, 2 to 2\(\frac{1}{2}\); Cape Copper, 29 to 30; Chontales, \(\frac{1}{4}\) to \(\frac{3}{6}\); Colorado, 1\(\frac{3}{6}\) to 1\(\frac{1}{2}\); Don Pedro, 11s. 3d. to 12s. 3d.; Frontino, 2\(\frac{1}{4}\) to 2\(\frac{1}{2}\); Javali, \(\frac{1}{4}\) to \(\frac{3}{6}\); New Quebrada, 2\(\frac{3}{6}\) to 2\(\frac{3}{6}\); Port Phillip, 7-16ths to 9-16ths; Richmond, 8 to 8\(\frac{1}{4}\); St. John del Rey, 270 to 275; Santa Barbara, 1\(\frac{1}{4}\) to 1\(\frac{1}{2}\); Ruby, 2\(\frac{1}{4}\) to 2\(\frac{1}{6}\); Canada Gold, 2 to 2\(\frac{1}{6}\).

The Market for Mine Shares on the Stock Exchange has now attained a thoroughly healthy condition, and the continued improvement in the prices of tin, copper, and lead ores gives every promise of continuance. There have been some fluctuations, it is true; but when the movement is all in one direction there is always greater probability of a collapse; and, comparing this evening's prices with those of last Friday, there is in almost every case a decided and satis-

those of last Friday, there is in almost every case a decided and satisfactory improvement,

The important decision against Messrs. Cohen and Sons, recently given by the Tribunal Civil de la Seine, is published by the Crédit National. The question raised was whether lost or stolen shares to bearer negociated out of France can be dealt with according to the French law of June 15, 1872. The Tribunal has decided that they can, en conséquece, la personne qui s'est rendue acquéreur des titres de cette nature, postérieurement à l'opposition publiée dans les termes de la susdite loi, est tenue de restituer lesdites valeurs sans pouvoir exciper de sa bonne foi pour réclamer le remboursement de ce qu'elle a deboursé; and, as the Crédit National remarks, the decision puts an obstacle in the way of a fraud, which would have been too easy if the contrary decision had been given. Matter Juliemier represented Messrs. Cohen and Sons, and Maître Proust pleaded for Mr. Parvilliers. It appears that the latter gentleman was robbed at his house at Nougent-sur-Marine of a number of valuable securities, among which were nine bonds of the Western of France Railway, at present July 2) in the hands of Messrs. Cohen and Sons. Mr. Parvilliers had given the necessary publicity to the robbery non-negociable. Messrs. Cohen and Sons pleaded that they were innocent third parties, and also that the French law to render the stolen securities non-negociable. Messrs. Cohen and Sons pleaded that they were innocent third parties, and also that the French law to render the stolen securities non-negociable. Messrs. Cohen and Sons should restore the stolen bonds to Mr. Parvilliers, or be condemned to pay the value of them, which was fixed at 5000 frs. The Court declared the saisle-a-arties to nebend for Parvilliers good and valid, and gave Cohen and Sons a week from service to restore him the bonds, or in default condemned them, d'ores et jeda, to pay him 5001 frs., with usual interest. Messrs. Cohen and Sons were also condemned for costs.

Missouri L

The Equitable Life Assurance Society of the United States (Mr. A. Munkitrick, general manager for Great Britain) has issued its accounts for the year 1878, as furnished to the Board of Trade, pursuant to the Life Assurance Companies Act 1870. This shows the society to be in a very prosperous state. They have nearly 7,000,000*l*. invested in mortgages in the United States, United States and State Bonds, house and landed property unencumbered, and similar equally good securities; and over 1,300,000*l*. has been received in premiums during the year.

during the year.

Devon Great Consols shares have been in great demand this week, and advanced to 6l., a good many buyers appearing from the neighbourhood of the mine, closing 5 to 5½. Great satisfaction is expressed regarding the application of rock-boring machinery, which it is said will open out the reserves of ore ground monthly some four times that of hand labour. This, with increased monthly samplings of copper ore, and the advancing price of copper, which it is now stated as likely to soon make further advance of 10l. to 15l. per ton, will greatly benefit the position of this company. Some important discoveries of orea are likely soon to be made. South Caradon shares have been in good demand, and advanced to 55l., 60l.. The rise in copper will add to the value of this property.

Richmond, 7½ to 8; the usual telegram from the mines at Eureka, Nevada, states that the week's run was \$33,000, from 484 tons of ore. During the week the refinery produced doré bars to the value of \$36,000. The manager's report (Sept. 17) contains little of importance. No. 13 chamber is not turning out quite so well as expected. The machinery is working very well. Ruby, 2½ to 2½; the advices from the mines are to the effect that rich ore is already being raised at a profit, and instructions have been given to carry out operations as recommended by Capt. Rickard.

The Old Telegraph of Utah (Mines de Bingham) shares, according to the Crédit National of this morning, have fallen to 250 frs., or 50 per cent.; and that journal remarks that it is curious that the local journals are favourable to the enterprise, although it is French. Why should they not be? The shipment of Bingham ores for Sept. 9, Devon Great Consols shares have been in great demand this week.

a tin

an wo mi

had lood ever it is to lood

Why should they not be? The shipment of Bingham ores for Sept. 9, 10, and 12 are given at about \$11,000, or nearly 800*l*. per day. On Sept. 11 there was a slight interruption at the dressing-floors for want of water, but the difficulty was quickly remedied. It is suggested that the shares will soon be worth buying, which they have not hitherto been In Lead Mine Shares there has been considerable activity, and the

unexpected declaration on Tuesday of a dividend of 5s. per share on Great Laxey, free of income tax, payable on Oct. 21, has given a still

n,

ls, 3½

ae

ek so

nd

er

to

of th

13;

y,

wc

th

lit

na l

ng

Ir. int

lly

ke his ith

re. of

rt-na-nes ng or he

9, On ont ed ot

he

greater impetus to the already improving market. The shares are now quoted 164 to 174, and with regard to the meeting a correspondent writes that the report (published in another column) of the proceedings "must be read with pleasure by the shareholders, and the remarks of Mr. Peter Watson (the London director) regarding the mines and lead trade, will prove highly instructive and interesting; and since the meeting the rise in the post of the proceedings of mr. Peter Watson (the London director) regarding the mines and lead trade, will prove highly instructive and interesting; and since the meeting the rise in the post of the process of the pro

CORNISH MINE SHARE MARKET.—Mr. JOHN CARTER, Camborne (Oct. 9), writes—Great excitement prevails in the Cornish Share Market, and a further rapid rise has taken place in prices. In Wednesday evening's market, however, a slight relapse occurred, but this has been fully recovered in to-day's market, and there is again a strong demand for all shares. The Tin Standards were advanced 2s. on the 6th, and again 3s. on the 6th inst. Dolcoaths advanced to 43, 44; Carn Breas, to 47, 49; East Pools, to 17½, buyers; West Bassets, to 8½; West Frances, to 9½, buyers. The annexed are prices here at Pour ciclock this afternoon—Botallack, 50 to 60; Carn Brea, 47 to 49; Cook's Kitchen, 2½ to 3; Dolcoath, 43 to 44; East Lovell, 3½ to 3½; East Caradon, 1 to 1½; East Pool, 17½ to 17½; Marke Valley, 1½ to 1½; Mellancar, 3to 3½; New Cook's Kitchen, 1 to 1½; South Condurrow, 13½ to 13½; South Corfty, 7½ to 7½; South Frances, 94 to 10; Tincroft, 12½ to 13½; West Basset, 8 to 8½; West Frances, 95 to 10; West Peevor, 4½ to 45; West Stenney, 3½ to 41; West Tolgus, 28 to 28; Wheal Agar, 3½ to 4; Wheal Basset, 25; to 2½; Wheal Grenville, 5 to 5½; Wheal Kitchey, 1½ to 1½; Wheal Kitty, 1 to 1½; Wheal Kitty, 1 to 1½; Wheal Feevor, 14 to 15; Wheal Uny, 1½ to 1½. CORNISH MINE SHARE MARKET .- Mr. JOHN CARTER Camborne

- Mr. J. H. REYNOLDS, Redruth (Oct. 9), writes—Tin shares in — Mr. J. H. REYNOLDS, Redruth (Oct. 9), writes—Tin shares in demand at higher prices, consequent on the further rise of 5s. on the tin standards. Carn Breas advanced to 50, buyers, and Dolcoaths to 44, at which price a large number of shares have changed hands. West Setons, West Bassets, West Frances, Wheal Pecvors, West Peevors, and Wheal Bassets in request at quotations. Annexed are the closing prices at Four o'clock—Carn Brea, 47 to 49; Cook's Kitchen, 2½ to 2½; Dolcoath, 42 to 44; East Caradon, 1to 1½; East Lovell, 3½ to 4; East Pool, 18½ to 17½; Herodsfoot, 2 to 2½; Marke Valley, 1½ to 1½; Mellanear, 3½ to 4; New Cook's Kitchen, 1½ to 1½; South Caradon, 50 to 55; South Condurrow, 13 to 14; Bouth Crofty, 7½ to 8; South Prances, 9½ to 10; Tincroft, 12 to 13; West Basset, 8 to 8½; West Chiverton, 3 to 4; West Frances, 9 to 9½; West Peevor, 4½ to 4½; West Tolgus, 26 to 28; West Seton, 40 to 45; Wheal Agar, 3½ to 4; Wheal Basset, 2½ to 3; Wheal Grenville, 4½, to 5½; Wheal June, 3½ to 4; Wheal Breevor, 14 to 15; Wheal Kitty (St. Agnes), 1½ to 1½; Wheal Crebor, 4½ to 5.

INSURANCE Sharkes Sharke, according to this evening's report of

Wheal Jane, 3½ to 4; Wheal Peevor, 14 to 15; Wheal Kitty (St. Agnes), 1½ to 1½; Wheal Univ, 1 to 1½; Wheal Crebot, 4½ to 5.

INSURANCE SHARES have, according to this evening's report of Mr. W. L. Webb, of the Stock Exchange and Finch-lane, been dealt in as follows: Atlas, 16½ to 16½; Commercial Union, 18 to 16½, ex div.; Imperial Life, 22½; ditto Fire, 15†; Law, 13; Legal and General Life, 12; London, 59½ to 59½, ex div.; London and Provincial, 4; Law Fire, 13; Marine, 83½ to 84½; Ocean, 613-16 to 6½; Phomix, 312; Queen's, 3½; Union, 350; Sun, 443½ to 445; and Universal, 10½ to 10½. All insurance shares have been bought at slightly increased prices. For closing prices see list on last page of Journal.

GAS SHARES.—The principal business in these shares, according to this evening's report of Mr. W. L. Webb, of the Stock Exchange and Finchlane, has been in Bombay (Limited), 5½ to 6½; Commercial, 189 to 19); Continental Union, 18½ to 18½; Gas Light and Coke, A, 179½ to 180½; ditto, ditto, 5 per cent. pref., 25 th Issue, 16½; ditto, ditto, C, 10 per cent. pref., 203½; ditto, ditto, D 10 per cent. pref., 205 to 209½ illito, ditto, E, 10 per cent. Pref., 205 to 209½; limperial Continental 178½ to 179; London, 177; Monte Video, 13¾; Oriental, 6½; Para, 4; Phoenix, 37½; ditto, 1876, 33; ditto, New Maximum 7½ per cent. 112; Rio de Janeiro, 26½ to 26½ ex div.; South Metropolitan, 188½; Surrey Consumers, 19; Surrey, 18½ to 19. There has been very little doing in gas stocks. Imperial Continental have been enquired for. For closing prices see list on last page of Journal.

TRAMWAYS—The closing prices of this evening, as quoted by Mr W. Abborr, of Tokenhouse-yard, are given in tabular form in the last page of the Journal. There will also be found in another column an extract from his monthly Circular.

which contains—Original Correspondence: Noxious Gases and Explosions in Collieries v. Pure Air and Safe Working (N. Job); Trial of Safety-Lamps at Wigan; Immense Advantage in the use of Gellivare Steel in Shipbuilding (W. J. Thompson); Canadian Mining Notes; Canada as a Field for English Ironmasters (H. C. Jones); New Zealand Kapanga; Treatment of Tin Ores (W. Nance, C. Thomas); Mining Prospects in the Future (B. Tredinnick); the Unwrought Mineral Ground of Cornwall—the Gwennap District (C. Bawden); Cornish Mining (C. Bawden); Wheal Crebor (A. Thomas); Orebor Mine, and the "Beare"; Mining in the Llanarmon Distict; Mining in Lead Mining; Foreign Mining and Metallurgy; the Scotch Mining Share Market; Meetings of Public Companies—Sierra Buttes, London and California, Great Laxey, Frongoch, Avonside, &c.

GLASLLYN CONSOLIDATED MINES.—We observe by a letter from a correspondent that these mines, which have now been for some time idle, are in consequence of the advance in the price of copper, and also, no doubt, owing to the success which has attended the working of Esgair Fraith mine, about to resume work. These mines, although situate in a well-known mineral belt, have never had a fair trial. Spirited cross-cuts have been commenced to cut the lodes at a great depth, but have been abandoned, apparently on the eve of success, and the large sums expended consequently lost; but it is to be hoped that sufficient working capital will now be provided to give the mines that fair trial in depth that the richness of the lodes at surface fairly entitle them to.

THE GREAT MINING DISTRICT OF CORNWALL.—In another column will be found an advertisement of a map of one of the most interesting will be found an advertisement of a map of one of the most interesting mining districts in the county of Cornwall—that extending from the western extremity of the parish of Camborne to Chacewater, embracing all the mines in Camborne, Illogan, Redruth, and Gwenuap, and part of Kenwyn. Now that the mining interest is reviving, and several of the mines opening up successfully—Wheal Peevor, &c., to wit—a map showing the relative positions of all the mines embraced in that large area must be desirable to the shareholders and to all who take an interest in this important branch of industry. Mr. Symons has rendered service to the mining community by the publication of the

maps of nearly all the mining districts in Cornwall. The present map, from its comprehensive character, is intended to be the most valuable of the whole series, and it is to be hoped that the author will receive an amount of patronage which will compensate him for his labour and expense in its production.

LEAD.—A considerable rise in the price of this metal is considered LEAD.—A considerable rise in the price of this metal is considered to be imminent, and unines having parcels of ore for, sale are advised to hold them over for a week or so. Large orders fave come in from abroad, and stocks in hand with the smelters are undoubtedly low, so that however reluctant they may be to do so buyers will be compelled ere long to concede a substantial advance. English pig is likely to see 16l. per ton before the month is out, and a much greater rise may be expected in the spring, when building operations commence, it not earlier. In anticipation of this an advance in the shares of productive mines has already taken place.

NEW CATHEDRAL.—The contractors having finished the erection of the 60-inch engine at this mine, it will be started this day (Saturday).

(Saturday).

WHEAL GRENVILLE.—We are informed by the secretary (Mr. Mitchell, of Union-court, Old Broad-street) that a parcel of Grenville tin was sold on Tuesday for 471. 2s. 6d. per ton, being the highest price realised by this company since 1875. The Chairman of Wheal Grenville stated at the last general meeting, on Sept. 25, that he believed the price of black tin would be 501. per ton before 1880. That gentleman's opinions seem to be very well founded, and we congratulate him. As regards his latest statements about Grenville, he has evidently not been "too sanguine."

EAST LOYELL.—The lode in the shaft improves. Investors should

EAST LOVELL.—The lode in the shaft improves. Investors should bear in mind that present prices (say 3½) is but 4000*l*. for the whole mine, which is thoroughly equiped with machinery.

MARKE VALLEY.—At the meeting, on Wednesday, all costs were charged close up, and the balance in favour of the mine was 940l. The appearances at the 90 fm. level are of the most promising character, and a discovery is daily expected. The advance in the price of copper will be a great benefit to this mine, which sells about 250 tons a month.

TAMAR SILVER-LEAD MINE.—This company has just sold its first parcel of fluor-spar (120 tons), which realised a good price. According to Prof. W. White's assay, it contains 8 ozs. of silver per ton. The lead raised from the Tamar Mine is also exceedingly rich in silver, yielding over 34 ozs. per ton. The 27 south is being driven on the course of the celebrated South Tamar lode, and the agent confidently expects to have to report a valuable discovery of silverlead in this direction shortly.

GERMAN TIN DEPOSITS.—Two valuable and interesting papers by Dr. E. Reyer have been reprinted from the Transactions of the Austrian Royal Geological Society (Jahrbuch der k.k. geol. Reichs-Anstalt) the one über die Tektonik der Vulcane von Böhmen, and the other on the Tektonik der Granitergüsse von Neudeck and Karlsbad. Appended to the latter is a history of the tin mining operations in the Erzgebirge. The character of the ore from the several deposits is described, and details of the mode of working are given. The mines have been worked but on a small scale from the beginning of the 17th century, and there appears to be plenty of tin ore worth from 150 lbs. to 200 lbs. of tin (the German pound is half a kilogramme, and, therefore, rather heavier than the English) from a little over 200 cubic feet of stuff, or at the rate of about 0.5 per cent. of tin. The property in the hands of an English company, which acquired it for 130,000 fl. (12,000L) in 1878, is being worked energetically, but they appear to have encountered difficulties in connection with fuel supply, &c., which have still to be surmounted. This and 12 or 14 other properties which Dr. Reyer refers to could no doubt be profitably worked if purchased at the prices from which they could be obtained from the present holders, and given the advantage of energy and capital. Dr. Reyer's paper on Banka und Bilitong has also been separately printed from the Oest. Zeitsch. für Berg und Hüttenwesen, and contains abstract of the recent volumes of the Jaarboek van het Mijuwezen Ned., &c., which have already been fully noticed in the Journal.

THE COAL TRADE.

Mr. J. R. Scott, the Registrar of the Coal Market, has published an export list, showing the distribution of coal imported into the port or district of London by sea, rail, and canal, and afterwards exported coastwise or to foreign parts, or sent beyond limits of London district by rail or inland navigation, during September, 1879:— Railway-borne coal passing "in transitu" through district...Tons

see-borne coal exported to British Fos or to the coast Ditto, sent beyond limits by railway. Ditto, by canal and inland navigation Railway-borne coal exported to Britis foreign parts, or the coast Ditto, by canal and inland navigation See-borne coal brought into port and e Total quantity of coal conveyed beyon during September, 1879.	45,805 20,803 1,808= 68,416 th Possessions, or to 35,965 206= 36,171 xported in same ships 1,517 d limits of coal duty district
Ditto, September, 1878	
	nent, 1878 and 1879.
Total distribution of coal from Jan. 1 to Total distribution of coal from Jan. 2 to Total distribution of coal from Jan. 3 to Total distribution of coal fro	to Sept. 30, 1879 1,687,893
Increase in the presen	nt year 165,363
By sea, Bhips. Tons. Newcastle 193 166,487 Beaham 47 27,375 Bunderland 111 72,139 Middlesborough 15 4,082 Hartlepool 84 30,409 Scotch 11 5,474 Welsh 6 2,807 Yorkshire 13 852 Bmall coal 11 4,556 Cinders 1 99 Foreign 1 150	By Railway and Canal. Tons cwt.
Total 493 314,430 Imports—Sept., 1875 410 261,282	Total 523,295 6 Imports during Sept., 1878 462,452 3
Comparative States: By sea. Ships. Tons. Jan. 1 to Sept. 30, 1879 3782 2,452,542 Jan. 1 to Sept. 30, 1878 3621 2,224,511	ment, 1878 and 1879. By railway and canal. Tons of Jan. 1 to Sept. 30, 1879 4,743,356 Jan. 1 to Sept. 30, 1878 4,006,581
Increase in coals imported by railway Increase in coals imported by sea	n. 1 and Sept. 30, 1879.
Less increase in exports	

rithin the London district GENERAL MARKETS.—English railway stocks still continue very buoyant; there has been a good deal of buying in them, no doubt mostly of a speculative character, still the public have been quietly investing in many of those stocks which have been unduly depressed of late, and the higher they rise the more buying we may expect; that trade has really at last begun to improve is fully shown by the Board of Trade Return published this week. The principal rise has been in Brighton, A, which are about 5 per cent. higher for the week. Other stocks, however, nearly all show an improvement of 1 per cent. to 2 per cent. Foreign bonds have fluctuated a good deal, Chilians have risen considerably on more favourable news from the seat of war. Egyptians are all lower, there being a good deal of uncertainty as to the dates of payment of the dividends; the variations in the Preference and Unified loans have ranged from 2 per cent. to 4 per cent. American railways continue to attract a great deal of attention, especially Erie shares. Grand Trunk and Great Western of Canada are both firm. Telegraph shares and miscellaneous securities have all been in demand. The funds are steady. Mining shares, particularly tin mines, have been very active, and a general rise in prices has taken place.—W, H. H. Watson: 1, St. Michael's-alley, Cornhill, E.C., Friday Morning, Oct. 10.

MR. CHARLES BAWDEN, M.E., ST. DAY, SCORRIER, CORNWALL, OFFERS HIS SERVICES to persons desirous of investing in Cornish Mines.

CAMBRIAN MINING COMPANY.

FOR SALE, ONE HUNDRED or TWO HUNDRED SHARES Offers to be made to "T. H.," care of Mr. Jno. H. Minifie, Sherborne

CAPPER PASS AND SON, BRISTOL.

LEAD ASHES, LEAD SLAGS, SULPHATE OF LEAD, HARD LEAD, BRASS SLAGS AND ASHES, COPPER REGULUS, MATTE, SCORIA, TIN ASHES, TERNE ASHES, &c., and MIXED ORES OF REFUSE, centaining LEAD, COPPER, TIN, or ANTIMONY.

GEO. G. BLACKWELL, 5, CHAPEL STREET, LIVERPOOL,

PURCHASER OF MANGANESE, ARSENIC, FLUOR-SPAR, WOLFRAM, BLENDE, CALAMINE, CARBONATE and SULPHATE OF BARYTES, ANTIMONY ORE, CHROME ORE, MAGNESITE, EMERY STONE, PUMICE STONE, OCHRES AND UMBERS, CHINA CLAY, LEAD ORE FOR POTTERS, TALC, PHOSPHATE OF LIME, &c.

HENRY WIGGIN AND CO.

(LATE EVANS AND ASKIN),
NICKEL AND COBALT REFINERS, BIRMINGHAM.

C. H. WALKER AND CO.,

MINING AGENTS AND ENGINEERS, VALPARAISO AND SANTIAGO, CHILE.

SULPHATE OF LEAD AND LEAD ASHES

PURCHASED BY RICHARDS, POWER, AND CO., SWANSEA.

To whom Samples may be sent.

AUSTRALIAN TIN-PRIZE MEDAL, 1877.

HE UNDERSIGNED is PREPARED to EXECUTE ORDERS for the

"KANGAROO" and other GOOD BRANDS. S. L. BENSUSAN.

Kangaroo Tin Works, Sydney, 21st May, 1879.

Mr. E. JACKSON,

Associate of the Royal School of Mines, ANALYST AND ASSAYER,
Assays or Complete Analyses made of Copper, Silver, Lead, Zinc, Tin, and
ther Ores.

ASSAYING TAUGHT.

106, QUEEN VICTORIA STREET, LONDON, E.C.

MINERAL WAGONS FOR HIRE.

G. E. BEVAN AND CO. (LIMITED), BLISWORTH,

have 6 and 8-ton WAGONS TO LET ON MODERATE TERMS.

MACHINE STRAPS FOR SALE.

ONE 6-in. MACHINE LEATHER STRAP, 45 ft. long. Price £4.
ONE 3 in. ditto ditto 36 ft. long. Price 30s.
Both as good as new for use. No reasonable offer will be refused

Applyto Mr. FOXWELL, 4, Claremont-crescent, Weston-super-Mare.

TO CAPITALISTS, PROMOTERS, INVESTORS, &c. MINING ENGINEER of large experience in the WEST OF ENGLAND is in a position to obtain VALUABLE MINERAL GRANTS for clients on easy terms, and to INTRODUCE PROGRESSIVE PROPERTIES requiring very little additional expenditure to enable considerable returns to be made. With improved trade large profits are certain.

Address, "C.E., F.G.S.," MINING JOURNAL Office, 26, Fleet-street, London.

WARNING.

INTENDING INVESTORS in the so-called GOLD FIELDS in the MOUNTAINS of MARACAYA and AMAMBAY (PARAQUAY) are requested, before doing so, to communicate with—Asuncion, in Paraquay.

LOUIS PÜCKLER.

ANTED, a GENTLEMEN, who can command £5000, to TAKE the PLACE of a RETIRING PARTNER in a LEAD SMELTING, DESILVERISING, and REFINING WORKS, doing a steady and substantial business. No previous knowledge of the business required, but a gentlema who can take charge of the books and attend to the financing preferred, as he can then satisfy himself of the soundness of the business.

Address, Wharton and Co., Accountants, 84, Lord-street, Liverpool.

WANTED, by a Gentleman of considerable experience in LEAD SMELTING WORKS, a SITUATION AS MANAGER OF ASSISTANT MANAGER. Address, "T. E.," MINING JOURNAL Office, 26, Fleet-street, London.

WANTED, an EXPERIENCED UNDERGROUND AGENT, practically acquainted with DRIVING LEVELS and SINKING SHAFTS, to go abroad.

Apply, with copies only of testimonials, age, and salary required, to "Agent," MINING JOURNAL Office, 26, Fleet-street, London.

COAL MINES REGULATION ACT. 1872.

EXAMINATION FOR MANAGERS' CERTIFICATES OF COMPETENCY.

DISTRICT UNDER THE CHARGE OF THOMAS EVANS, Esq., H.M. INSPECTOR OF MINES.

PERSONS desirous of being EXAMINED in this District for MANAGERS' CERTIFICATES OF COMPETENCY, under the above-named Act, should at once COMMUNICATE with the Secretary to the Board of the above-mentioned District at the following address.

By order of the Board,
The Wardwick, Derby.
WM. SAUNDERS, Secretary.
N.B.—Persons who do not reside within the District are equally eligible for examination with those who do,

COAL MINES REGULATION ACT, 1872. EXAMINATION FOR MANAGERS' CERTIFICATES OF COMPETENCY.

DISTRICT UNDER THE CHARGE OF JOSEPH DICKINSON, Esq.,

H.M. INSPECTOR OF MINES.

PERSONS desirous of being EXAMINED in this District for MANAGERS CERTIFICATES OF COMPETENCY, under the above-named Act, should at once COMMUNICATE with the Secretary to the Board of the above-mentioned District at the following address.

31a, King-street, Wigan.

31a, King-street, Wigan.

MASKELL WM. PEACE, Secretary.

N.B.—Persons who do not reside within the District are equally eligible for examination with those who do.

			1	J E	AD	01	E E	8		
Date	e.	Mine	. !	ron	. P	rice	per	to	n.	Purchasers.
-4	4 Dad	Dook		40		0 0	7	0		Navill Druce and Co.
	5-Fron	goch		. 50	*******	9	2	0	*****	ditto ditto Walker, Parker, and Co.
	- di	tto		.100	*******	9	1	0		ditto
	8-Grea	t Dyliff	0	. 40	***** ***	9	17	6	******	Walker, Parker, and Co.
	9-Rom	an Grav	rels	.200	*******	9	14	0	*****	ditto
	-Talar	rgoch :-	-							
	Ma	Leavrew	ddu	50	********	10	16	8		ditto
	Co	etia Lly	8	. 30		10	13	6		Adam Eyton.
	-Nort	h Hend	re	. 50	********	10	3	0		Quirk, Barton, and Co. ditto
		ditto	44904111111	. 50		10	2	6		ditto
	-	litto	(round)	10	*******	31	15	0		Walker, Parker, and Co.
	Prim	oe Patri	nk	. 50		10	12	- 6		ditto
	- 0	litto	(round)	10		12	3	6		Sheldon, Bush, and Co.
	-Rhv	dalun		. 20		10	11	- 6		Adam Eyton.
	-Picto	013		. 5		10	2	- 0		ditto
	-Que	n of the	Mountair	1 5		9	18	- 6		ditto
			-	_			_			
				TO 7	THE REF.	T 7	TR .			

Price per ton. Purchasers. £ 4 15 6 Villiers Spelter Co. 4 12 6 ditto 5 4 6 Vivian and Sons. Date. Mines.
Oct. 8—Talargoch....
— ditto
— ditto

Notices to Correspondents.

Much inconvenience having arisen in consequence of several of the Number during the past year being out of print, we recommend that the Journal shoul be filed on receipt; it then forms an accumulating useful work of reference.

Received,—"S. R." (New York)—"E. G."—"W. B."—"H. E. J." (Toronto)—
"Shareholder" (Derwent)—"An Old Reader" (Bristol)—"Shareholder" (Goginan)—"Member" had better apply to the Secretary for the information he
requires—The Correspondence respecting the Colombian Hydraulic Mining Company shall appear next week—Capt. George Rickard, on Rock-Boring Machinery
for Metallic Mines, is unavoidably deferred: it shall appear next week, also
letters on Instantaneous Steam Generation, and Electric Motive Power—"Share-

holder "(Fonstruthal).

IMPORTANT NOTICE—FOREIGN POSTAGE ON THE "MINING JOURNAL."—Under the Universal Posta Convention the postage of the Mising Journal to many countries has been greatly reduced as compared with former rates. Henceforth the subscription will be il. 10s. 40. per annum (39 frs.), postage included, for the following countries. The amount will, if desired, be collected at the univertier's residence at the end of each year. The subscription continues until countermanded:—Austria, France, Belgium, Denmark (including Iceland and the Farce Islands), Egypt, Germany, Gibraliar, Greece, Heligoland, Italy, Luxemburg, Notherland, Norway, Portugal (including Madeira and the Azorea), Roumania, Russis, Servia, Sweden, Switzerland, United States, Malta, Turkey, Morocco, Tunis, and the Canary Islands. Spain 14. 19s. (50 frs.) Subscribers remitting to the office can in most cases avail themselves of the International Postal Money Order system; those in the United States and Germany should advise their remittance by letter, as the Post Office does not give the sender's name.

THE MINING JOURNAL,

Bailway and Commercial Gazette.

LONDON, OCTOBER 11, 1879.

COMPENSATION FOR INJURIES TO WORKMEN.

COMPENSATION FOR INJURIES TO WORKMEN.

Mr Macdonald having stated his determination to re-introduce in the next Session of Parliament his bill for giving compensation to workmen for injuries received whilst following their ordinary employment, we are glad to find that in the discussion that will necessarily follow some new and important information will be furnished in opposition to that one-sided, unfair, and class measure. Mr. T. WOOD BUNNING, of Newcastle, so well known in connection with the North of England coal trade, a short time since visited the Continent, and whilst there made himself acquainted with the laws relating to compensation for injuries to workmen in France, Belgium, and Germany, and also obtained the opinion as to their working from the highest legal and Government authorities. The valuable data thus obtained has been issued to the parties immediately interested by the Mining Association of Great Britain, who cannot fail to appreciate the able and exhaustive manner in which the question data thus obtained has been issued to the parties immediately interested by the Mining Association of Great Britain, who cannot fail to appreciate the able and exhaustive manner in which the question has been treated. On several occasions we may say we have directed attention to the subject, and we are pleased to find that our views have been so thoroughly endorsed by Mr. Bunning, and to a considerable extent also by the law existing in Germany, France, &c. We have admitted that there was some ground for holding a master responsible for any act of his own, the carrying out of which resulted in injury to a person in his employ, or where such may have taken place through the orders of a person he has appointed as his representative. But it is very different where a workmen has been injured by his own act, or that of a fellow workman in the same employ to which neither master nor his representative have in any way contributed by word or order. But cases of culpable negligence on the part of a mine owner or manager are fully met by the existing law, whilst there is no law or power by which a master can obtain compensation from one or more workmen who may do him injury to the extent of many thousands of pounds, as there is every reason to believe has been the case with reference to not a few of the colliery explosions that have taken place. With respect to the greatest explosion recorded, that of the Oaks Colliery, evidence went to show that it was caused by a heavy charge of powder in blasting through some stone into a drift, and the loss must have been from 20,000% to 30,000% to the owners. If the bill of Mr. Macdonald had been in force in 1866 the owners of that colliery, in addition to the heavy loss named through the recklessness of one or two men, would have been obliged to pay a much larger sum in addition to the representatives of the men killed and injured. Yet this is what the leaders of the workmen whereby any person is injured. The proposal is too absurd—too monstrous in fact—to suppose that any body of

gentlemen of average intelligence could be found capable of giving it their sanction, or in any way aiding in embodying it in an Act of Parliament.

The Member for Stafford has spoken approvingly of the system adopted in Germany, where compensation is given for loss of life or injuries sustained in the working of railways and mines; but the law does not go to anything like the extent Mr. Macdonald would lead us to believe, and this is fully shown by Mr. Bunning. The German law of June 7 provides that—"If any person in the working of a railway is killed or bodily injured the company is liable for the damage caused, unless the company proves that the accident was caused by force majoure or by the personal fault of those killed or injured." With respect to mining, however, the law does not go so far, for Section 2 states that—"Any one working a mine, quarry, pit, or factory is liable for the damage caused by the death or bodily injury of a person if such accident originated in the fault of an authorised agent, a representative, or a person acting as manager or surveyor of works, or workmen." The compensation, it appears, in case of death consists of the doctor's bill, the cost of burial, the loss of income incurred during illness, whilst if the deceased was legally under the obligation to support others those persons could seek damages, in so far as they were deprived of his assistance. In case of injury there would have to be paid the doctor's bill and the loss of income whilst unable to work. It will be seen that the German law only makes provision for the owner's liability where it is shown that an accident was caused by the fault of his representative or a person holding a position of trust, and was, therefore, not liable for the faults of any of the workmen, which was the great point sought for on behalf of the miners of this country. This is not a deduction of our own, for Herr Brasser, the Inspector of Mines in Germany, distinctly states that the owner is not liable for the fault of a fellow workmen. He fur workmen. He further says that "whoever makes a claim for damages must prove that the injury or death was brought about by a fault of an authorised personal representative whilst in the execution of his duty. Efforts, it appears, have been made to change the law in Germany as they have been in England, for Herr Brassers says that motions have been repeatedly made in Parliament to alter the law so that the principle applicable to railways—where the companies are liable in every case—should be extended to mines and other undertakings so that the minesware should be considered liable so so that the principle applicable to railways—where the companies are liable in every case—should be extended to mines and other undertakings, so that the mineowner should be considered liable so long as he did not prove on his part that no fault was to be found in the management of his authorised representatives, manager, &c.; but the endeavours pointing to this alteration of the law have at present no prospect of success, because the respective laws with regard to the proof of guilt were too much in accordance with equity in the several cases to allow of their being altered with any regard to justice. As to the amount of compensation to be paid in Germany, it is stated in Section 4 that if the killed or injured were ensured in any other office or fund then the payments made from such funds are other office or fund then the payments made from such funds are deducted from the compensation (provided the owners contributed to them). But, according to the Prussian Law of 1865, mine proprietors are bound to pay to the miners' funds at least half of the contributions of the workmen employed at their works. Should, for instance, a workman be injured, and the owner of the mine be declared lightly to the mine that the property of the work would be declared lightly the contribution of the mine to declared lightly the contribution of the mine to declared lightly the contribution of the mine to declare the contribution of the mine to declare the contribution of the mine to declare the contribution of the mine to the mine to the mine to the contribution of the mine to the mine t clared liable to pay an annuity to the injured person, which would be 600 marks witnout considering the miners' fund, from these 600 marks would be deducted the annual payment which the injured man

had to receive from the miners' fund, so that the mine proprietor would in reality only have to pay an annuity of 300 marks. The object of this law was to favour the formation of miners' supporting funds and to encourage employers in contributing to them. This course, we can say, is now being adopted in nearly all the important coal mining centres in the kingdom, and the masters have contributed so far most liberally. In a petition presented last session from the ironmasters of South Staffordshire against the employers' liability it is stated that they had for many years supported hospitals and other kindred institutions for the benefit of the persons employed by them, and if a Bill with respect to the liability of them towards their employers was passed they would be restrained from supporting such institutions. This would certainly be the result of the passing of any of the Acts that were introduced in Parliament during the last session, so that the workmen would be in a much worse position than they now are were the wishes of their so-called friends fully carried out.

sion, so that the workmen would be in a much worse position than they now are were the wishes of their so-called friends fully carried out.

The law of France with respect to responsibility is rather peculiar, and is defined by the Civil Code, better known, perhaps, as the Code Napoleon, and Article 1382 enacts that every act of a person which causes injury to another obliges the person by whose fault the injury was committed to make compensation. As to mine-owners, they are only reached if they can be proved guilty of negligence or imprudence. Where the culpability rests with the engineer or overman they only are liable for injuries, and the same liability applies to the workmen. But in the case of miners the person who worked one or the lessees would be held responsible for the acts of negligence or imprudence of his engineers, viewers, or workmen, living or killed by an accident. Thus a workman firing a shot in a quarry were others where working, and several workmen were killed by an explosion, the proprietor or the person working the quarry would be liable for the acts of his workmen. As to who was responsible where there was no culpability, Mr. Alfrad Dupont said no culpability was only admitted where the accident could not be attributed to act or deed, or to negligence or known imprudence, which was called in France "a case of force majeure." In such a case there could be no responsibility. The same law is applicable for railways and all other industries, but the law obliges the plaintiff who has suffered injury to prove the act of negligence or carelessness to which he attributed his injury. But we are told by Mr. Bunning that in order to understand the full bearing of the Code Civil it must be taken for granted that the provisions therein contained, applicable to masters and workmen, refer to damages which may be caused by the latter, and not damages suffered by them when performing the duties in which they are employed, in which case masters and workmen can only be made amenable for their own personal

the common law, and can only be made to answer for their own personal acts." In the case of a mine accident the decision of the Court of Lyons was that "a workman hurt in a hazardous employment, of which the dangers were a part of his calling, cannot claim damages against the owner if no fault can be imputed to the said owner." In the same court it was held that "the master of a workman was not responsible for an accident happening to the said workman by the imprudence of another of his workmen."

In Belgium, in the working of mines and all other industries, the responsibility is regulated by the general principles of Articles 1382 to 1384 of the Code Civil of France, so that the person by whose fault an injury has been committed has to make compensation. Monsieur JULES DEL MARMOL also states that there is not in Belgium, any more than in France, any special law defining the responsibility of the proprietors or lessees of mines in respect of the damage caused by accidents resulting in injury. But in order not to be responsible in case of accident it is necessary that every care and diligence should be exercised in the administration of all undertakings. In principle we are told this question is sometimes difficult to solve, and an illustration is given in a case which came before the Court of Brussels in February, 1877, the question to decide being who was responsible for the fall of a cage which was descending to the bottom of a shaft with several persons, and which led to the death of some of them. The enquiry proved that defects existed in the iron of which the cage was constructed but were not visible and had not been noticed during decreases. several persons, and which led to the death of some of them. The enquiry proved that defects existed in the iron of which the cage was constructed, but were not visible, and had not been noticed during a minute inspection made two days before the accident by men especially appointed for the purpose. On the other hand, no ostensible cause could be ascribed which would produce such a violent shock as was the immediate cause of the breakage. Under those circumstances the plaintiff, the father of a young woman killed by the accident, did not succeed in his claim for 1000 francs damages, the Court of Brussels deciding in favour of the worker of the mine.

We have shown that the miners in Great Britain are fully as well

sels deciding in favour of the worker of the mine.

We have shown that the miners in Great Britain are fully as well off as regards legal safeguards, if not better, than their fellow-workmen on the Continent whilst following their employment. Statistics also show that the deaths from mine accidents in France and Belgium are far higher for the quantity of coal raised than they are with us, and if we add that the wages paid to our miners are from 40 to 60 per cent. higher, with less working hours, than in those countries we think it will be admitted that the British miner is in every way far better off than those in any other part of the world—in a much better position even than those in America; to which many of them have been tion even than those in America, to which many of them have been

Our mineowners are certainly under a deep obligation to Mr. Bux-NING for the valuable information he has obtained, we may be sure NING for the valuable information he has obtained, we may be sure not without considerable, difficulty, and we cordially agree with his closing remarks—that it would be a monstrous injustice to owners and lessees of mines already injured by a great accident which may have destroyed their workings, caused them an immense damage, and thrown hundreds of men out of work, were they now to be condemned to compensate numerous victims for a negligence or imprudence which early days here their fault. which could not have been their fault.

THE UNITED STATES AND THE IRON TRADE.

The social and commercial condition of the United States being at the present juncture a matter of considerable interest to the British iron trade we make no apology for again referring to the subject. It appears to us that the commercial advantages which the Americans Western Europe have been under estimated. We recently set down the extra profit which the United States are likely to derive from their prodigious wheat crop at 10,000,000l, but we fancy this sun, great and substantial as it undoubtedly is, is below the mark. The United States will send Great Britain and Europe somewhere about 11,000,000 qrs. of wheat this year, and the price of wheat seems likely to be about 10s. per qr. higher this year upon this side of the Atlantic than it was in the autumn and winter of 1878. The actual difference is already 7s. per qr., and the margin is increasing from day to day, so that 10s. per qr. may not be the full difference. Then there is account to be taken of the flour, maize, &c., which will also find their way this year from the United States to Europe; but the gain does not stop here, because careful estimates which have been framed upon the subject place the progress of the production of wheat in the United States this season at 39,250,000 qrs., representing (at 50s. per qr.) a Western Europe have been under estimated. e recently set down States this season at 39,250,000 qrs., representing (at 50s. per qr.) a money value of 98,125,000%. No doubt all this new wheat has not been raised for nothing. But American agriculture is a cheap and primitive affair, and of the total of 98,125,000% just mentioned at primitive affair, and of the total of 98,125,000*l*. just mentioned at least one-third (or say 32,000,000*l*.) ought to remain in the hands of the Americans as so much additional profit. If, then, the wheat, flour, and maize likely to be exported from the United States in 1878-79 will leave the Americans an extra profit of 10,000,000*l*. we must allow another addition of 32,000,000*l*. to the profits of the American agricultural interest in respect of the progress of wheat production. Here we have an addition of 42,000,000*l*. to the working capital, so

to speak, of the American nation. We admit that any calculations which we may make upon the subject must be pronounced rather confused and unsatisfactory, and so indeed they are. Still, the broad tangible fact remains that the enormous agricultural production of the United States this year will make a very great addition to the wealth, capital, or whatever you may please to call it, of the American people.

We have heard of the intention of the Americans to proceed with the construction of 4000 miles of new railway; but with those acquainted with the enormous area of the United States and the remarkable with the enormous area of the United States and the remarkable rapidity with which American railroads are constructed any such limited figures as 4000 miles will probably only excite a smile. It wealth pours in upon the Americans at the rate at which it is now accumulating upon their hands the next six or seven years are more likely to winness the construction of 40,000 miles of new railroad instead of 4000 miles. But, perhaps, the greatest source of the extremely active demand which now prevails for railroad materiel in the United States is the improvement of existing American railroad systems. As American railroads increase in productibility they advance also in respectability, and their road-beds are brought up more to the European standard. To sum up matters briefly, we may close with the remark that the United States are just now extremely prosperous, and that for some time to come they can scarcely fail to be very large consumers of railway materiel.

THE BANCA TIN MINES.

It is well known that the Banca tin mines, the property of the Dutch Government, are amongst the formidable competitors of Cornwall, if, indeed, they are not the most formidable of all. The yearly output 1874 to 1879 has averaged about 68,000 piculs (1 picul = 61.75 kilogrammes), and it is this enormous quantity which has weighed heavily upon the home tin market during the period of depression from which we are just emerging. It is, therefore, satisfactory to note a large diminution in the output of these famous Indian mines, which yield to the Government about 500,000l. per annum. This diminution has been officially stated by the Dutch Minister for the colonies in his explanations accompanying the Budget for the This diminution has been officially stated by the Dutch Minister for the colonies in his explanations accompanying the Budget for the Dutch East Indian colonies for 1880, just presented to the States General at the Hague. The tin to be sold is estimated to realise 36 guilders per 50 kilos., against 35 guilders in 1879, an estimate considerably below current prices. But although the higher estimate of 1 guilder per 50 kilos would, under ordinary circumstances, justify a larger sum being put down for the total yield of the tin sales, the Minister has estimated that yield at 350,000 Dutch florins less than in 1879, in consequence, he states, of an important decrease in the produce of the Banca Mines. In the Budget for 1879 the total produce is estimated at 70,000 piculs, whereas only 60,000 piculs are put down for 1880—a reduction of 10,000 piculs in one year, or more than 14 per cent. For a long while such good tidings have not reached Cornwall as those contained in the above few figures.

THE IRON AND COAL INDUSTRIES OF NORTH WALES.

THE IRON AND COAL INDUSTRIES OF NORTH WALES.

There is no part of the kingdom where the iron trade has declined to anything like the extent of that of North Wales, where the ore is of good quality, and where there is an abundance of coal well adapted for smelting. The beds of ironstone are really valuable, more especially the "brassy" and the "blackband," from which in 1869 there were raised 33,431 tons for the Brymbo and the Frwaf furnaces. Hematite of a fair quality has also been obtained at Bodfair, near Flint, and it has also been found at some other places, but not worked. With the many advantages enjoyed by the northern portion of the Principality, including plenty of stone, lime, and fuel, with shipping ports and railway communication, so that both home and foreign markets are of easy access, it is certainly surprising to find that so far from any progress having been made in the most important of our national industries, the production of pig-iron was less in 1878 than it was 20 years previously. At Ruabon, which is only some 18 miles at most from Chester by the Great Western, the New British Iron Company have three furnaces, but they were all out last year, whilst at the Frwdd Works, near to Wrexham, there were two out of the three in blast. The furnaces at Mostyn, which is a place where a good deal of coal is shipped, are situated quite close to the colliery belonging to the company, but last year the two were out of blast. In 1874 and the following years there was a marked falling off, for the Mostyn Company had both their furnaces at work, obtaining, as is the case with most of the ironmasters, the principal supply of stone from the coal measures. At one time, indeed, so much stone was raised in North Wales that a considerable portion of it was sent into other districts, for in 1859 the quantity raised was 87,072 tons, whilst the make of pig was only 26,890 tons. Denbighshire, it may be said, supplies nearly all the stone that is used. Flintshire, raising a thousand tons a year, and sometimes rather

Year.	Iro	nstone-	tons.	Fur	nac	es.	In	bla	st.	Pig	-iron-tons
1855	*****	65,820]	11			8			31,420
1859	******	87,072			13			6			26,980
1861		86,500									
1863	******	28,282			13			7			51,076
1865		98,280			14	****		7			51,874
1867		44,082	******		9			5			32,843
1869		33,493									
1871		51,887			8			5			41,893
1873		38,286	*****		9			5			42,773
1874		44,380			9			6			51,868
1875		42,184			9						
1877		41,711]	11			4			26,715
1878		57,044]	11			3			23,091

be the at ala wh nei thi cie mi mi

me ten the in rem mo the cre ing rec pove a ing is p on and to e sim ign

1878 23,091

Comparing the two last years with the two preceding them it will be seen that the decline was more than 50 per cent., and that less iron was made in 1878 than there was in 1855.

North Wales contains some of the finest coal to be found in the kingdom. The curley cannel, which was first raised at Leesewood, near Mold, in 1862, being particularly rich in oil, and giving 14,280 cubic feet of gas to the ton. The largest portion of the coal worked is from the Denbighshire field, which commences near Oswestry and runs from thence to Ruabon, Wrexham, and to the Valley of the Alyn. The seams are of fair quality and thickness—the main coal running to nearly 8 ft. in thickness, and the brassey to 5 ft. whilst

there is another seam called the two-yard coal. there is another seam called the two-yard coal.

Some 20 years ago there were no deep collieries, so that the production was but moderate, the output in 1858 having been only 527,000 tons, whilst last year it was 1,513,900 tons. Now, however, there are several deep shafts, the Hafod Colliery being about 500 yards from the surface. A large tonnage of the coal goes on to the Great Western Railway, that for last year amounting to 988,675 tons. But with such a fold the tonnage of coal visied in the country should be with such a field the tonnage of coal raised in the county should be much larger than it is, for at the present rate of production the seams at a depth of 4000 ft. would last something like 1000 years. The Flintshire field is an old one, for, according to PENNANT, the coal seams of Mostyn were worked in the time of EDWARD I., and in the 17th century Dublin and the eastern parts of Ireland were supplied 17th century Dublin and the eastern parts of Ireland were supplied from the same locality. The London and North-Western takes a large tonnage of coal from Queensferry, from the collieries near to the station as well as those in the Buckley district. A couple of miles from Hawarden is the Aston Hall Colliery, the lessor of which is Mr. W. E. GLADSTONE, from which a good deal of coal has been raised, there being a line to Queensferry as well as to the River Dee at the same place, where vessels of moderate burden load. At Mold one of the seams is about 11 ft. thick, whilst the Hollin coal is rather more than 6 ft. A considerable tonnage of cannel was at one time raised at Leesewood Green, Coppa, Coed Talon, Nerquis, Wern, and Leesewood Hall, but of late years there has been a falling off. Yet so far back as 1865 the yield of cannel was 150,000 tons, or nearly onen of ican

able

now

de. lian

the

nate

the

not

ned oted

ces.

with

im-New last two

the

the

1859

and

1 be

rked

pro-only ever, ards

reat But

d be The coal the olied arge the niles Mr.

t the ne of more aised

twelfth of all the coal that was raised in North Wales. The Leese-wood curley cannel gives 14,280 cubic feet of gas to the ton, the durability of the gas per foot per minute being 82 30, the illuminating per foot in candles 10 09, and the grains of sperm per foot 1 308. A fair tennage of coal is sent to the London market from Coed Talon and a few other collieries, the London and North-Western having taken from the former last month 1710 tons. The tonnage raised in the two counties, however, has been anything but progressive for years, but the tonnage during 28 years has about doubled. This will be seen from the following figures, showing the output from 1854 to 1878:—

the 10	Howing ugme	so, anowing	ene oueput m	nm 1004 m 10	10
Year.		1 000 000		United Kingdom	1.
1854	Tons	1,143,000	Tons	64,661,401	
1855		1,125,000	***********	64,453,070	
1856	************	1,096,500	***********	66,605,450	
1857	************	1,046,500	************	65,394,707	
1858	************	1,022,500	************	65,008,649	
1859	*************	1,662,000		71,979,765	
1860	***********	1,750,500	***********	84,042,698	
1861		1,870,250		86,039,214	
1862	***************************************	1,660,000	***********	81,638,338	
1863	***********	1,728,000	***********	86,292,215	
1864		1,987,060	*************	92,787,873	
1865	*************	1,983,000	*************	98,150,587	
1866	************	2,082,000	**********	101,630,544	
1867		2,371,250	***********	104,500,480	
1868		2,385,000	**********	103,141,157	
1869	************	2,155,180	**********	107,427,557	
1870		2,329,030	***********	110,431,192	
1871		2,500,000	************	117,352,028	
1872		2,550,000	*************	123,497,316	
1873		2,450,000	************	127,016,747	
1874		2,425,300		125,067,916	
1875		2,349,118		131,867,105	
1876	************	2,207,250	*************	133,344,766	
1877		2,479,580	*************	134,610,763	
1878	***************************************	2,222,357	***********	132,607,866	
		, , , , , , , , , , , , , , , , , , , ,			

It will be seen that the output has not been equal to the general increase, which in 1878 was more than 100 per cent. over that of 1854.

NOTES ON COAL DUST EXPLOSIONS.

NOTES ON COAL DUST EXPLOSIONS.

At the recent meeting of the North of England Institute of Mining and Mechanical Engineers Mr. D. P. Morison (member of council) communicated an interesting abstract from the Annales des Mines of a review, by Mr. Louis Dombre, of the paper on this subject, read before the North of England Institute by Messrs. A. Freire-Marreco and D. P. Morison After reviewing to some extent the important experiments conducted by Mr. Galloway, and published by him in the Transactions of the Royal Society and other periodicals, the author (Mr. Dombre), examining the theory propounded by Mr. Galloway of the danger of a mixture of coal gas (or fire-damp) and coal dust, proceeds:—"Messrs. A. Freire-Marreco and D. P. Morison express their opinion that Mr. Galloway's conclusions are too absolute. According to their views coal dust is simply a generic term, and the specific dusts should be described. There are dusts and dusts—e.g., that of cannel coal differs from that of anthracite. It may be possible, then, that the dust on which Mr. Galloway experimented did not possess the qualities requisite to produce explosion without the presence of an admixture of fire-damp, but the same may or may not apply to other dusts. These considerations induced Messrs. Marreco and Morison to extend the scope of the experiments of Mr. Galloway, and the results given in the paper already presented to your institute are carefully detailed, with reproductions of the diagrams, and the conclusions to which your attention was invited."

Mr. Dombre, after criticising the table of flames produced by the various samples of dust submitted, concludes his paper by the following remarks, which, proceeding from an impartial judge, should merit attention from the fact of that impartiality, as well as from the interest according to his remarks from several analogous cases cited by him:—"From the experiments which have given rise to this notice

attention from the fact of that impartiality, as well as from the interest accruing to his remarks from several analogous cases cited by him:—"From the experiments which have given rise to this notice we think that we may be entitled to assert—First, that a gaseous mixture produced by a shot may in certain cases set fire to coal dust held in suspension in the atmosphere of the working place where the shot was fired, and thus produce a veritable explosion. Second, that the nature and composition of dusts play an important part (un rôle capital) in the mode of commencement and in the propagation of such an explosion. It is probable that the inflammation of the dust will be (other conditions being equal) more easily effected and further spread by the fact of the coal which produces the dust possessing a larger proportion of volatile matter.

"We must now ascertain how far such an explosion will be localised, embracing a district more or less extended from its origin, or whether

mitting it to feed itself by alimentation from distant districts of the mine?"

In a footnote Mr. Dombre mentions that, in the explosion of the Jabin pit, coke was found on the timbering nearly 1½ in. in thickness, and that the analysis of this coked dust proved that 25 per cent. of volatile matter had been lost (between the states of dust and coke), or, in other words, that every kilogramme of dust had given off in weight 70 grammes of inflammable gas, quite enough to account for the most disastrous effects of heat, and after-damp which which have yet been experienced. Blantyre, Swaithe Main, Pelton, and too many other local sweeping catastrophes, point to the dire effects of dust explosions, as exhibited by the coking and charring of bodies, timbers, the sides, or roofs of galleries at points far distant from any possible reach of gas per se, and here it may be asked whether any heavy wide-spread explosion has been observed, and noted in a seam sufficiently damp to prevent accumulations of dust in the working places or main roads.

Mr. Dombre, after some instructive remarks in criticism of the theory that excess of ventilating force may intensify explosions, and after particularising the support given by M. Chausselle to this idea, thus potently expresses himself:—"Although to some slight extent sharing these views, we may observe that in our opinion improvements in ventilation do not constitute the primordial cause of this tendency of local explosions to develope into catastrophes, but that the fault lies in the increased area of the workings themselves.

tendency of local explosions to develope into catastrophes, but that the fault lies in the increased area of the workings themselves, and in the larger number of men working in one district and in one curment of air,"—(this appears to apply especially to the longwall)—"or, more plainly, in the undue concentration of the working places." He then adds that increased ventilation has had to follow the necessity then adds that increased ventilation has had to follow the necessity created by this increase of face and workers, and continues—"Speaking of what he terms the 'paradox' of Mr. Chausselle, Mr. Galloway recommends the use of water for laying the dust in workings where powder is used. 'In future,' he says, 'in addition to the old cry of "air, more air," we must add a new one easily supplied—"more water." 'Mr. Galloway, perhaps, overrates the possibility of applying in practice the remedy he proposes. If the employment of water is practically possible in English mines, the same does not hold good on the Continent, where the seams are lying at heavy inclinations, and under very different conditions of stratification. Is it not better to cut at the root of the evil by requiring from the mechanic a tool. and under very different conditions of stratification. Is it not better to cut at the root of the evil by requiring from the mechanic a tool, simple and handy, suppressing and superseding gunpowder or other igniting mediums in dry and dusty workings."

The subject of coal dust and its influence in colliery explosions having now been taken in hand by an influential and practical com mittee appointed by the Chesterfield and Derbyshire Institute of Engineers, well provided with the sinews of war, some further light may

be thrown on the almost unknown influences of dust, heat, and drought in colliery disasters.

BOILER ACCIDENTS, AND THEIR PREVENTION.

be thrown on the almost unknown influences of dust, heat, and do dight in colliery disasters.

A fair for and reverse the condition of the colliers of the col

largor proportion of volatile matter.

"We must now ascertain how far such an explosion will be localised, tembracing a district more or less extended from its origin, or whether it may under certain circumstances spread through the mine, and thus become the cause of catastrophes, such as those of Pelton, of the pit "Cingsols," of Lian, of Jabin, or of Blantyre. This question is one which the results of experiments, however ingeniously conducted, can soarcely elucidate, and its solution may, perhaps, for ever be only a theoretical induction. It now appears undeniable that in the presence of fire-damp, even in minute proportion, the explosion, at first local, spreads with rapidity, and may even assume suddenly slamming proportions. But if no fire-damp exists in the workings where the explosion originates, and if none is to be found in the neighbouring workings, is it to be supposed that the gases evolved by this more or less complete carbonisation of the dust alone are sufficient of themselves to sustain combustion, propagating it, and permitting it to feed itself by alimentation from distant districts of the mine?"

In a footnote Mr. Dombre mentions that, in the explosion of the Jabin pit, coke was found on the timbering nearly 1½ in, in thickness, and that the analysis of this coked dust proved that 25 percent. Of volatile matter had been lost (between the states of dust and coke), or, in other words, that every kilogramme of dust had given off in weight 70 grammes of inflammable gas, quite enough to account for the most disastrous effects of heat, and after-damp which which have yet been experienced. Blantyre, Swaithe Main, Pelton, and too many other local sweeping catastrophes, point to the dire driven of bodies, timbers, the sides, or roofs of galleries at points far distant from any possible reach of gas per se, and here it may be asked whether any heavy wide-spread explosion has been observed, and noted in a seam sufficiently damp to prevent accumulations of dust the care heavy head and the produced again

be set at a greater or less angle with the horizon, and the powder allowed to fall down its inclined surface, after the manner of a cascade; or the electrode surface may be placed in other positions, and the powders projected against it; or the electrode surface may be caused to vibrate to and from the powder.

Whichever method be employed the grains of powder as they roll or otherwise come in contact with the alternating conductors forming the bars or ribs of the electrode surface, make and break contact therewith several times before quitting the field of the electric action, thereby causing a large number of electric sparks to be produced, and the said grains of powder to become white-hot, or incandescent, the aggregation or sum total of these sparks and incandescent; the aggregation or sum total of these sparks and incandescencies resulting in a brilliant and bright but comparatively soft light. It will be readily understood that the electro surface may be made of any desired form and size; it may be kept in motion or stationary, and may be divided into any number of separate parts, as each unit of the electrode surface will produce a certain proportion of light, whether separate from the rest or united thereto. The electric force required to produce light by the above means and arrangement is simply in proportion to the extent of the electrode surface employed, and is comparatively small, because the grains of powder act as intermittent conductors, but at the same time other sufficient resistance to the passage of the current to cause them to become white-hot while making and breaking contact with the alternating conductors of the electrode surface. The apparatus above described may be employed in vacuo, or in an atmosphere of gas, which will not support combustion, such as nitrogen or carbonic acid, and in these cases the powder may be used over and over again with very little or no loss; or it may be used over and over again with very little or no loss; or it may be used in the open atmosphere, but in th

the powder against such surface, or to move the said surface to and from the powder; for example, in one arrangement he receives the powder after it leaves the electrode surface into suitably shaped receptacles, which at regular intervals of time or on the closing of an electric circuit determined by the flow of the powder itself are raised from the lower to the upper part of the lamp by means of clockwork, an electro-magnet motor, by hand, or otherwise being arranged so as to deliver powder to the electrode surface when in the uppermost position, and to receive powder from the said surface when in the lower position. In another arrangement, instead of receptacles raised intermittently, the powder is received into a receptacle below, and raised by an elevator continuously; or the glass shade surrounding the lamp may be adapted to rotate by any suitable mechanical appliance, and to raise the powder by means of ribs or corrugations formed on its internal periphery. In another arrangement the powder is projected against the electrode surface by means of revolving beaters or otherwise; and in another arrangement, more especially applicable, for example, to lights situated in the ceilings of rooms or chambers, he arranges a horizontal sheet of glass at the bottom of the lamp, and over it he places an electrode surface, as above described, a certain quantity of powder being placed between the glass and the electrode surface, and he causes the said electrode surface to be wibrated up and down by mechanical or electro-magnetic means, so as to make and break contact very rapidly with the grains of powder on the glass; this causes the said grains to become incandescent, and to show a light downwards.

The Yorkshire College.—The sixth session of the county college of Yorkshire began last Tuesday. The Calendar, which was fully noticed in the Mining Journal of Sept. 20 contains a prospectus of the work done in the various day and evening classes, with the examination papers set last session, and much other information of interest to students. Besides the ordinary course of education preparatory for the University or a learned profession, good work is being done in the college at Leeds in various departments of technology. The textile industries and dyeing departments, endowed by the London Clothworkers' Company (the latter not yet in full operation) appear to be well equipped, and likely to produce a good effect on one of the great industries of Yorkshire. The engineering and mining classes, though not, perhaps, so well attended, are certainly quite as much needed as the former. It is gratifying to observe that the college provides a good curriculum in civil and mechanical engineering, including field work, construction, and machinery. The classes for instruction in the theory and practice of coal mining, mining engineering, and colliery management meets for the first time this session on Oct. 20. The introductory lecture is to be given in the Philosophical Hall, Leeds, next Monday afternoon, and certainly nothing need be said to recommend such a class to those who are preparing for responsible positions in collieries, and who live within reach of the Yorkshire College. It will be sufficient to remind them of the beginning of the session.

Miners' Safety Lamps.—The Barnsley Magistrates had before

MINERS' SAFETY LAMPS.—The Barnsley Magistrates had before them on Monday, a case which the bench stated was one of the most important mining prosecutions they had ever heard. John Gough, a hurrier at the Woolley Colliery, was committed for one month without the option of a fine, for unlocking and lighting a safety-lamp with a lamp-hook. The magistrates expressed their surprise, and said that hitherto they believed these lamps could only be opened by authorised lamp men. It was admitted that any lamp could be opened and relocked by the men. The magistrates stated that they would communicate with the Mining Inspector immediately.

Hoisting Englines For the Comstock.—One of the largest hoisting outfits for mine purposes ever built on the Pacific Coast has just been completed at the Risdon Ironworks, San Francisco, for the Yellow Jacket Mine on the Comstock. The whole outfit weighs some 350 tons. For beauty of finish and style the machinery is considered to excel any yet made there. The hoisting machinery consists of a pair of direct-acting engines complete, with reels, breaks, &c. The two engines work on one crank-shaft, and are 28 ft. apart between centres. The engine frames are of the Corliss, or circular patterns, and about 24 ft. long between the front ends of the cylinders and where the frames join the pillow blocks. The cylinders and where the frames join the pillow blocks. The cylinders are 28 in. in diameter, with 8 ft. stroke of piston. The exhaust chests are cast on the side of the cylinders, and low enough to have the valve-seats below the bottom part of the cylinder. Each engine has its pillow block cast in one piece, and bolted to the frame, with side and bottom brasses. The centre pillow block is bored to 21½ in. diameter, and has a 32-in. length of journal. The crank shaft is turned bright. It is 19 in. in diameter at the ends, and 21½ in. in diameter in the centre. The method of construction of the crank and crank plates is peculiar. There is a crank at each end of the shaft, made of wrought-iron, and 4 ft. long from centre of shaft to centre of pin. The crank hub is 36 in. in diameter, and 17 in. thick. Each crank is bored, turned, and planed on faces and sides, and on each side is forged a tongue to fit in the crank plates. These crank plates are of cast-iron, circular in form, and each made in two pieces. When the two pieces are bolted together the disc is 13 ft. in diameter and 14-in. face. Each plate has a recess to fit the tongue of iron left on each side of the crank. These plates are turned and finished on faces HOISTING ENGINES FOR THE COMSTOCK .- One of the largest of cast-iron, circular in form, and each made in two pieces. When the two pieces are bolted together the disc is 13 ft. in diameter and 14-in. face. Each plate has a recess to fit the tongue of iron left on each side of the crank. These plates are turned and finished on faces and edges, after the crank is put in place between the two parts, which are bolted together, and enclose it. This is an expensive method of construction, but a most effective one, the forged crank then being embedded in the cast plate. There are two reels with twelve moveable arms each. The reels are 6 ft. in diameter and 7-in. face. They run upon eight bearing brasses, all adjustable. The reel arms are made adjustable to take in various widths of rope. The brake wheels are made 15 ft. in diameter and 12-in. face. The clutches are 60 in. in diameter and 29 in. long. They are banded with two wrought-iron bands. The clutches are worked by two hydraulic cylinders, 8 in. in diameter and 8 in. stroke. Each break wheel has three breaks on each side and one at the bottom. These side breaks are models of strength. They consist of two upright wrought-iron trussed arms, 19 ft. long, connected on top by a double adjustable rod. The under shoes are 9 ft. long and 12 in. wide. The bottom breaks are wrought-iron straps. The straps are wood covered, and are operated by a combination of levers. In addition, each crank plate has a wrought-iron strap break. Each reel is furnished with one of Behr's patent spiral drum indicators, 4 ft. in diameter and 6 ft. in length. The machinery was built from the designs of Mr. H. Patten, the consulting engineer of the Yellow Jacket Company.

AMALGAMATING CHLORIDISED ORES.—The ores of silver are, according to the invention of Mr. James O. Stewart, of Georgetown, Colorado, first chloridised whether with or without gold, by roasting them in the ordinary way with common salt, and they are then amalgamated with mercury in wooden pans or barrels, out of contact with corporations and the same contact with company in the company of the same contact with corporations. gamated with mercury in wooden pans or barrels, out of contact with iron, but with copper linings or balls, using in the operation instead of water the liquors from a previous amalgamation. The liquors, after the amalgamation is completed, are carefully preserved for use with fresh portions of the ore previously chloridised by roasting with salt. The advantage is thus secured of a strong brine for holding in solution the compounds of the base metals, and amalgamation of the precious metals is favoured more than can be done with water or the simple use of weak brine, which is ordinarily used with the process. solution the compounds of the base metals, and amalgamation of the precious metals is favoured more than can be done with water or the simple use of weak brine, which is ordinarily used with the mercury in working chloridised ores; for the strong brine, holding in solution other chlorides and compounds of base metals, extracted from the previous charges of the ore and used out of contact with metallic iron, acts upon portions of ore not perfectly roasted, and causes a larger yield of the precious metals than can be obtained by the use of salt water, as in ordinary amalgamation. A store tank is used for holding the recovered salt solutions, and from this tank the brine is drawn into a wooden pan or barrel, where it is charged with the roasted ore. It is then heated by steam, and the mercury is added. In a few hours the contents are drawn off into a settler tub, which is also of wood. When the mercury and amalgam have sufficiently settled, the contents, consisting of ore and brine, are drawn off into a filter tub. Here the brine is filtered out, and allowed to run through a tub which contains copper, or mercury, or both, to precipitate any silver or gold which may still remain in solution, and thence is pumped

the sio be Mo als by aft the spo all further popa,

breaff the of of wo free first tra are pet the age bed disquared who be for the good who we for the good who we for the good who we would not cook and

of the dis Ce wh wh tall Ba on Prosect Ca will such Sinch the sinch has last old ward the green blatthe the the tall the tall blatthe the tall the

wo Nu tion sta has iron hav con Sta

to

inquostes sterili decoment the Col the Ber At amo defe wer leave the

into another tub to precipitate any copper which may be in solution, and thence to a pump tub to be raised again to the original supply tub, for use again in fresh charges of ore.

REPORT FROM CORNWALL.

Oct 9.—Our October forecast is receiving ample and speedy realisation. Two advances in the tin standard already since the month opened and the prospect of more to come would cheer the hearts if we had been even more depressed than we were, and if the dismal forebodings of the croakers and the annihilation of Cornish mining had been imminent had really been true. It is very gratifying to anyone who through evil report and good report has held firm to his faith in the lasting character of our tin mines as compared with our opponent to find that his most sanguine anticipations are being thus realised. We shall not be at all surprised to find the present advance opponent to find that his most senguine anticipations are being thus realised. We shall not be at all surprised to find the present advance nearly doubled by the end of the year. The indications are all in that direction, not only as regards tin itself, but other metals, with copper and lead both improving. Tin has a double prospect of advantage—it gains by the general advance in the metal market, and it gains specially also by the slackening of the colonial and other foreign competition to which it has been subjected. All classes are sharing in the results of the improved prospects—the adventurers, of course, in higher dividends and reduced calls, and the working miner by the increase of employment and the advance of wages. of course, in higher dividends and reduced calls, and the working miner by the increase of employment and the advance of wages. Several new mines are on the eve of being opened up or old ventures reworked, and at other places operations that had been restricted are being rapidly extended. Happily there seems as yet no indication of undue excitement and wild speculation, which have been among the greatest banes of mining enterprise. The coming winter, unless every prospect is to be falsified, will be the most cheering Cornwall has known for well nigh a decade, and probably another generation may pass ere there will be anything like a return to the dark days through which we have passed. Fluctuations, however, there always have been and always will be. through which we have passed. Fluctuations, however, there always have been and always will be. The real consolation is that every advance in the improvement of mining enterprise enables us the better to meet them. No one who is at all acquainted with the facts but recognise that Cornish mining now stands upon a much firmer, because a much more economical, basis that it did at the last time of

high prices.
One of the advantages conferred upon Cornwall and its mining industry within the past few years has undoubtedly been the formation of the Mining Institute. We have been enabled to ascertain that the forthcoming Exhibition of the Institute at Redruth will be one of singular excellence, and include many novelties. Mr. H. R. Marsden will show the model of a new stone-breaker, or rather crusher, which by the introduction of a kind of grinding action in the jaws will not by the introduction of a kind of grinding action in the jaws will not only break up the rocks but reduce them to a powder. Mr. Jordan will exhibit for the first time his dead-blow hand-power rock-borer. Mr. Bucknell will have his glass sleepers, as at the recent meeting of the Iron and Steel Institure. Messrs. Osborne, of the Clyde, will show a number of castings; Messrs. Guy forward metallic tungsten and tungstic steel; Messrs. Hathorn send models of compressors, &c., and Andre's and Stokes' electric lamp, which will be shown in operation. There are many other features of interest, but these will for the time suffice as an example, and we may add that there will be a trial of rock-borers at Wheal Agar. We are not aware whether Capt. Southey will forward his jigging apparatus, but it has been suggested that he should do so. If he did it would greatly help in the solution of the recent controversy. The suggestion has been in the solution of the recent controversy. The suggestion has been made, and there is no reason whatever why it should not be carried out, that so far as the rival buddles are concerned a series of experiments should be instituted with the view of ascertaining which really wastes the least quantity of tin. Of course, all must waste some, or whence the "Red River."

wastes the least quantity of tin. Of course, all must waste some, or whence the "Red River."

We are glad to hear that the proposed commission on the use of explosives initiated by the Polytechnic Society, and taken up by the Miners' Association, has advanced another stage, and that the Mining Institute has joined in the movement and appointed its representatives. The abilities of the gentlemen who have been delegated to this work by the several societies are amply sufficient to indicate that the enquiry will be thorough, and one, therefore, that is likely to lead to very important practical results.

Capt. Teague got over his difficulties with the Beaumont Company very happily. He stated at Carn Brea account that the dispute was settled, though not without going to London and having the matter tried before a judge. The Beaumont Company claimed 3000L, and they (the mine) claimed 2000L, but before the judge they tore the Beaumont Company's case to "shivereens," and luckily they were not catechised on their claim. He had the judge's award, the result of which was that he gave the Beaumont Company a shilling because he would not treat them shabbily, and, as he did not like to treat the mine shabbier than he treated the company, he gave them a shilling too. But the judge also thought it proper that the representatives of the mine should be allowed their expenses to London, so the Beaumont Company had to pay over that amount to the mine, and their other expenses would be less than 50L. For the time Carn Brea is not using a boring-machine, but it will again by-and-bye, still central work is heary done there now by heard labour. Cart the is not using a boring-machine, but it will again by-and-bye, still capital work is being done there now by hand labour. Capt. W. Teague, jun., stated at the meeting that 12 men and six boys had sunk 7 fms. in two months, and that six men had driven 6 fms. in one month. This is first-rate speed.

[N.B.—Before this report was finished came the news that a further

installment of advance had occurred even earlier than we anticipated, and that the tin standards were advanced another 3s., making a total improvement of 17s. in all; it is not unlikely that 20s. will be reached within a few days. Excitement is now considerable, and the share market is showing symptoms of greater activity than seen for years.

The death is announced of Capt. ZACHARIAS WILLIAMS, who was for upwards of 40 years an agent under Messrs. John Taylor and Sons at the Wheal Friendship Mine. Capt. Williams's devotion to his work, and long experience of mining and of heavy pumping machinery, caused his services to be highly valued by his employers. He did at Mary Tavy, near Tavistock, on Sept. 29, at the age of 82

REPORT FROM DERBYSHIRE AND YORKSHIRE.

Oct. 9.—An improvement has undoubtedly taken place in the Iron Trade, and it is certainly not confined to one locality, but appears to be general, and Derbyshire is now sharing in it, although there has as yet been no increase in the production. But there is every reason to believe that should matters go on as they have been doing during the last few weeks before long some more furnaces will be put in blast. The recent advances in prices have had the effect of reducing stocks, singular as it may appear, for consumers consider that prices will still go up; hence the desire to purchase at existing rates. In manufactured iron there is also more doing, but as yet not to any appreciable extent. Bessemer rails are in as active request as ever, so that there is still a large out-put. Coalowners of late have been doing much better than for some time past, and there has been a marked increase in the demand for London, but without any alteration in price, for consumers can now purchase on the same terms that they did during the summer months. Derbyshire it may be said now sends more coal to the London market than any it may be said now sends more coal to the London market than any other county, or even the whole of Wales, South and North. Its proximity to the Metropolis and the moderate rate charged by the Midland Railway place it in an almost exceptional position, so that colliery owners in other and more distant districts are able to purchase it and have it sent direct to London cheaper than they can raise it at their own pits. Steam coal is still in rather moderate request for the time of year, and prices rule low. The collieries in the county, however, are now free from strikes, the men at the last place where they thought it advisable to oppose their employers having resumed work after mutual concessions. In common and small coal peace where they thought it advisable to oppose their employers having resumed work after mutual concessions. In common and small coal not much is being done, the consumption of engine fuel in the Lancashire manufacturing districts being still but moderate. A good deal of coke is now being turned out, and this now meets with a fair sale in the Sheffield and other districts.

The improvement in most of the Sheffield trades which com-

menced some five or six weeks ago is still maintained, and there is now every appearance that it will continue, and there is in all directions a far more hopeful feeling as to the future than has directions a far more hopeful feeling as to the future than has existed during the previous part of the year. Makers of pig-iron have been doing a large business, and prices have gone up astonishingly, more especially for hematites, the consumption of which in the Bessemer converters has greatly increased of late. Ordinary furnace and mill pig as a matter of course has also advanced in price as the demand for it has also increased. Makers of Bessemer rails are defined and in the summit of the lamp, at a cost of less than a demand for it has also increased. Makers of Bessemer rails are defined and in the summit of the lamp, at a cost of less than a demand for it has also increased. Makers of Bessemer rails are demand for it has also increased. Makers of Bessemer rails are the summit of the lamp, at a cost of less than a demand for it has also increased. Makers of Bessemer rails are the summit of the lamp, at a cost of less than a demand for it has also increased. Makers of Bessemer rails are demand for it has also increased. Makers of Bessemer rails are doing well so far as orders are concerned, but they must be working very close so far as profits are concerned, owing to the advance which has taken place in the raw material. Some fair Government contracts are in hand for heavy armour-plates as well as for rifled barrels and gun-blocks. In cast-steel there has been some little improvement of late, and there is every probability of a marked increase in the demand for that material, and just now a good deal is being sent to America. Steel plates for ships and boilers are also coming into greater request, whilst steel wheels are also being more extensively produced. A good business continues to be done with extensively produced. A good business continues to be done with Australia in most descriptions of goods, whilst other of our colonies are also taking more from us than during the early summer months. cutlery manufactures are by no means busy, but some of the leading firms are able to keep their hands fairly going in the best qualities of table and pocket knives. The foundries are moderately well employed, whilst the engine and machine works are still comparatively quiet, as they have been for a considerable time,

In South Yorkshire the Coal Trade is in anything but a satisfactory state, the wares question being still a bone of contention. In

tory state, the wages question being still a bone of contention. In several places the men have been requested to submit to a reduction of wages, and in reply to this the delegates from the various lodges passed a resolution that an advance of 10 per cent should be demanded, and in case of its refusal that the output should be reduced one-fourth. October 8 was the day fixed for giving in notices for the advance, but the men on calm consideration evidently thought that advance, but the men on calm consideration evidently thought that discretion was the better part of valour, so that on the day named no notices were sent in. As it is, however, there are several collieries standing, whilst the association is unable to render the men any mastanding, whilst the association is unable to render the men any material assistance. At some collieries also the men are under notice, and will have to leave unless they agree to a new price list or to a reduction of wages. The trade, it may be said, has improved, and at several collieries the men are able to work full time, and are getting very fair wages. The business doing with London in house coals has declined during the past month so far as South Yorkshire is concerned, owing to the high rates charged by the Great Northern, which throws a large quantity of the traffic into Derbyshire, where the rate to London by the Midland is much lower. Steam coal bas gone off verg well of late, a large tonnage being sent to Grimsby for shipment to the North of Europe. A fair quantity is also being forwarded to North Lincolnshire for the use of the furnaces in that rising ironmaking district, and there is every prospect of an increase in the remaking district, and there is every prospect of an increase in the requirements, as it is said some more furnaces there are likely to be put in blast before long.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

Oct. 9.—In Wolverhampton yesterday the Quarterly Meetings commenced, and there was much anxiety to know what were the prices which were to rule in the ensuing quarter. It quickly became known that no change had been made in the price of coal, which remains at for furnace sorts 8s. per ton. It was intimated that there might, however, be a rise on Nov. 1. The leading Shropshire and Staffordshire pig makers re-declared 3l. 5s. for all-mine hot blast, and 4l. 5s. for cold-blast irons. These prices have ruled since the opening of the year. While last Quarter-day these prices were mostly nominal yesterday they were actual selling rates with no abatement. Hematite pigs were particularly firm. The agent for the Barrow Company asked 3l. 10s., and sellers of Tredegar pigs 3l. 12s. 6d. These figures show a rise of 10s. and 12s. 6d. per ton upon some former rates, and prevented much business being done. Northampton pigs were not to be had except at a rise on old rates, and one firm asked by circular an advance of as much as 1l.! All local makes were firmer upon the quarter. Marked bars were re-declared at 7l. 10s. with 8l. 2s. 6d. for Earl Dudley's brand, which are the prices fixed a year ago. Common bars are 6l. to 6l. 5s., which is not so low as last quarter, and other Earl Dudley's brand, which are the prices fixed a year ago. Common bars are 6l. to 6l. 5s., which is not so low as last quarter, and other descriptions of medium and common finished iron also improved in price. Sheets for galvanising purposes were not to be had except at a good advance—in some cases of from 10s. to 15s.—upon the late minimum, and makers reported themselves well filled up with orders. From 7l. 10s. to 8l. may be quoted for common singles. Best sheet iron for stamping has by steady small advances reached, in the case of a few firms, a rise of 1l., and rather to check business than otherwise a further 2l. a ton is asked by some. As an instance of the improved business doing in finished iron it is mentioned that one well known house has lately refused contracts amounting to a total of 20,000 tons. Galvanised sheets have been put up by Messrs. T. W. and J. Walker, merchants, a further 1l. per ton, making a total rise of 2l. They now quote 45l. in Liverpool as their price for ordinary brand. Tin-plates are in very active request, and prices are up. I.C. coke of the "Stour" brand is priced at 19s., a rise of 3s. upon former minimum rates. The advance is not excessive, but consumers are reluctant to give it.

At Birmingham, on Thursday, there was more than usual animation,

At Birmingham, on Thursday, there was more than usual animation. the Quarterly Meeting being attended by merchants and buyers from all parts of the country, and representatives of many foreign houses. American buyers in particular mustered in great strength. Business, though decidedly better than at the July meeting, scarcely corresponded to the magnitude of the attendance. Enquiries were numerous, and a good many negociations were entered into, but, excepting in one or two special lines, the resulting orders were unimportant. Prices were strong all round, at the advance lately established, and in several instances makers demanded and obtained established, and in several instances makers demanded and obtained a further advance. Standard qualities, both of pig and finished from were unchanged, the former at 65s. for hot-blast native all-mine, and the latter at 7l. 10s. for bars, with the customary 12s. 6d. extra for those of Lord Dudley's make. At these prices, however, producers were not eager to book for forward delivery. The chief improvement of late has been in unmarked iron and second-class pig, both of rabich bud faller through corrections and second-class pig, both of which had fallen through competition and trade depression to a most unremunerative level until the recent upward movement set in. Most descriptions of common Staffordshire pig were from 5s. to 10s. higher than at the previous quarterly meeting, and the rise in Derbyshire, Northamptonshire, West Coast, and other foreign iron was still more marked. In unmarked finished iron the rise was from 10s. to 20s. per ton. Sheets were 15s. per ton higher, and for galvanised iron as much as 3l. advance was asked, large contracts having lately been booked at a rise of 2l. These rates yesterday had the effect of restricting business, and many specifications were withheld, in the belief that the rise will not be maintained beyond the end of the navigation season. In tin-plates, however, a large end of the navigation season. In tin-plates, however, a large business was done, and purchases on an extensive scale were made by American buyers at an advance of 4s. to 6s. per box on the recent minimum. Makers in this department report themselves fully booked up to the end of the year. In ordinary merchant iron there is not so much doing, and in several instances makers, whilst refusing orders at last week's prices, acknowledge that they are in want of experiences. want of specifications. The rise in pig-iron, however, and the apprehension of an early rise in coal, compel them in prudence to decline further engagements at old rates. As regards coal, the decline further engagements at old rates. As regards coal, the apprehension of a rise would seem to be premature, as stocks are abundant, and excellent furnace coal is offered by Cannock Chase, owners at 6s. per ton at the pit mouth, which is 3s. under the Dudley list price. House coal is in improved demand, but the supply is still in excess of public requirements.

Several objects of interest were exhibited in the hall. A good deal of attention was bestowed on a working model of Chandler's extent interest were exhibited in the hall.

patent railway wagon coupling, by which the connection of vans, wagons, engines, and goods vehicles is effected from outside the buffers, entirely obviating the danger to which brakesmen and others are exposed when coupling the vehicles between the buffers. It consists simply of a double swing link, of elongated form, moving on an arm or lever, suspended from the coupling hook, which is

fixed. Attached to each line is a continued in a pulley wheels to the side of the truck, where it terminates in a weight. On pulling the upper or front cord the link is raised over the opposite hook, into which it is lowered by simply pulling the lower or back link cord. To uncouple, it is only necessary to reverse the operation. A model was also shown of the automatic gas lamps, Hearson's patent, which makes gas as it burns from a small reservoir of benzoline in the summit of the lamp, at a cost of less than a farthing an hour. Messrs, Harris and Pearson exhibited samples of the well-known fire-clay bricks and boiler-seating blocks. Messrs, the well-known fire-clay bricks and boiler-scating blocks. Messrs.
Butlin submitted samples of their Wellingborough pig, and Messrs.
Taylor and Challen showed plummer blocks and plain and split

pulleys.

The North Staffordshire coal and iron trades share in the greater prosperity of the industries in the south of the county, otherwi

prosperity of the industries in the south of the county, otherwise there is not much that is new to report this week.

The inquest on the bodies of the eight men who were killed in the colliery explosion at Leycett, North Staffordshire, was concluded on Thursday. Mr. Wheelhouse, Q.C., attended on behalf of the Home Office, and Government inspectors also attended. The evidence was to the effect that the pit was fiery, but that the explosion would not have hapened had not a level been cut against the manager's orders by the deceased men, which resulted in gas being driven through a Davy lamp. A verdict of "Accidental death" was returned.

REPORT FROM NORTH WALES, SALOP, AND CARDIGAN.

Oct. 9.—The letter of "W. L." in last week's Journal relative to Oct. 9.—The letter of "W. L." in last week's Journal relative to the Cambrian Mines and their critics is not a difficult one to read and understand. If I am the regular Correspondent about whose health he is so anxious, I should be glad to relieve his anxiety by assuring him of my welfare. He may be quite sure, however, that it has never been the chief amusement of my life to growl at the Cambrian Company. "W. L." does not seem to understand fair criticism, or the fact that underneath it all there may be a sincere desire for the business success of an enterprise, or he might have interpreted recent silence as a patient hopeful waiting for the redemption of great promises which has been somewhat strengthened by the various parcels of copper sold by the company. Very much more will have to be done before promises are redeemed, and before a dividend can be declared on the paid-up capital. on the paid-up capital.

In a former report I expressed the hope that I might be permitted

In a former report 1 expressed the hope that I might be permitted to record the inauguration of a plan that would embrace the delivery of field lectures on mining. I am now in a position to redeem my promise. The following proposal, which bears the signature of D. C. Davies, of Gobowen, has been submitted to some of the leading

engineers of the Principality:-

THE NORTH WALES INSTITUTE OF MINING ENGINEERS.

It is proposed to establish a society with the above or some similar title. Its purposes will be:

1.—To promote intercourse between gentlemen who are professionally or otherwise engaged in mining operations with their associated industries.

2.—To promote an intimate knowledge of the mineral resources of North Wales and the border counties, together with the collection of information relative to all the practical details of mining industries.

(a) By the preparation and reading of papers on such subjects, with discussions on the same.

(b) By valist to miner, quarries, collieries, &c., during the summer months.

(a) By the preparation and reading of papers on such subjects, with discussions on the same.

(b) By visits to mines, quarries, collieries, &c., during the summer months, and by the holding of meetings during the winter months in various towns within the district.

(c) By the publication—periodically, or as often as sufficient material may be collected—of the Transactions of the Institute, which shall as far as practicable be illustrated.

3.—To endeavour to establish a library of mining, scientific, and technical works of value; and

4.—The establishment eventually, if possible, of a school or institute of mining for the Principality of Wales.

It is proposed as soon as a sufficient number of gentlemen have expressed their adherence to the scheme to hold a meeting at some convenient place in order to consider and decide upon the constitution of the society, the rules for its management, and the plan of its operations.

I can only wish the movement success, although probably Mr. Davies has made a mistake in submitting his proposal first to the leading and successful engineers, who are usually too busy and too satisfied with their own success to trouble themselves about such satisfied with their own success to trouble themselves about such

novements.

There is a strong movement progressing in the Principality for the purpose of utilising the endowments of Jesus College, Oxford, for the promotion of the "higher education" of Welshmen. I hope that in any successful scheme there may be a provision for the teaching of science in its practical applications. The teaching from professors of natural science in our colleges is for the most part too theoretical

nd speculative. Who is the Mr. Humpige, Ph.D., B.Sc., who has been elected to the chair of Natural Science at the University College of Wales, at Aberystwith? The first of these titles is hardly a recommendatory one. Still he may be a good man, notwithstanding his title.

The sale of the plant, &c., at Brynkinallt Colliery has been postponed until the end of the month.

A fatal accident has occurred at No. 2 Pit, Broughton Colliery. A para who was replacing the guides falling down the shaft and year.

man who was replacing the guides falling down the shaft and meeting with instantaneous death. A man has also been killed by a fall of rock in a cutting on the Bala and Festiniog Railway.

TRADE OF THE TYNE AND WEAR.

TRADE OF THE TYNE AND WEAR.

Oct. 8.—The coal shipments at Tyne Dock have been about an average during the week; there is, however, some improvement in the coal and coke trades in Durham, and gas contracts have been made at slightly advanced rates. Should the rapid rise in the value of pig-iron continue a number of furnaces will be blown in, and this must act very speedily on the demand for coal and coke in Durham, as the furnaces will require large supplies, and this movement will relieve the shipping trade from the glut so long experienced, and consequently the coal and coke shipped must rise rapidly in value. The natural consequence will be that several collieries that have been closed some time will be reopened. The Redheugh Colliery, in Gateshead, which has been closed since February, is expected to be opened shortly. In Northumberland the steam coal trade continues in a healthy state, and most of the works are fully employed. This in a healthy state, and most of the works are fully employed. This is very satisfactory when it is considered that most of these pits were only employed about half time at this period last year. The demand for small coal is also improving in the county. At North Seton the output is very gradually increased. The Gosforth Colliery, which has been closed some time, is to be reopened immediately.

diately.

The iron trade is in a very feverish state, and fears are entertained yet that a reaction may occur, but on the other side it is clear that the shipments continue very large, and stocks are rapidly decreasing; indeed the shipments are on a scale unprecedented, amounting last month to 101,000 tons, and there is a net decrease in stocks of 29,000 tons nearly; the stocks in hand are 290,000 tons. Several iron furnaces are to be blown in at once in the Cleveland district, and at Jarrow another furnace is to be blown in. The iron shipbuilding trade has been very dull of late, but there is a revival of this trade also. On the Tyne some orders have been secured on the north side of the river, and also at Jarrow. A contract has been made for a large iron screw steamer for the general carrying trade. The same firm have also secured an order for another torpedo steamer for the Government, and there are numerous enquiries from the managers of steam shipping firms in various parts of the country.

Oct. 10.—The Iron Trade is not so much excited as it was a few days ago. Pig-iron has also receded a little in price; there is a lull. Opinions vary as to whether the great increase in business will prove Opinions vary as to whether the great increase in business will prove to be permanent, but it is thought that at all events a considerable improvement may confidently be looked for. The engineering and foundry trades continue very dull. The marine engine trade is very dull, and a large number of mechanics and others are unemployed. Greater animation is marked in the Durham coal trade; the output is being enlarged, and prices have advanced materially. Very considerable orders for coke have been placed in the Marley Hill and Crook districts.

At the North of England Institute of Mining and Mechanical Engineers meeting, held in Newcastle on Monday, a large number of members attended, the chair being occupied by Mr. G. C. Greenwell, on

the

ops,

srs.

plit ter

ing was

N. to and

lth

m-

nce

red

ted

Its

ales e to

ths,

ing

heir

Mr.

uch

the

cal

the at

ory ost-

fall

his

and

his

ned

hipthe een ade.

ma-

few lull. rove able

and very yed. out-

Enr of

well,

the President. Mr. D. P. Morison read "Notes on Coal Dust Explosions," abstracted from the Annales des Mines by M. Louis Dombre, being a review of the paper recently read before the Institute by Messrs. A. Freire Marreco and D. P. Morison. Mr. D. P. Morison also read a paper "On Boiler Accidents," being part 11 of a paper by the same author. The paper was illustrated by models of boilers after explosion, belonging to Mr. E. B. Marten, chief engineer of the Midland Steam Boiler and Inspection Company, who also addressed the meeting on the subject, and urged that there should be an inspection once a year by the engineers employed by the firms and not by the Government. He also stated that the theoretically perfect boiler with the view of avoiding explosions would be one constructed on the principle of the Perkins tubes used in the field for the army. Mr. R. S. Newall stated that one of Perkins' engines was at the present time working in a steamer on the River Tyne, and was working up to a pressure of 450 to the square inch. They condensed all the water they used, and used it over again, and there was little further supply required. There is a very great saving of fuel with the boiler, the quantity consumed being less than 1½ lb. per horse power per hour. A vote of thanks was given to Mr. Morison for his paper.—[Both these papers are referred to fully in another column.]

There was a better attendance than usual on 'Change at Middlesbrough. For years past the proprietors of the Exchange have afforded opportunities for the exhibition of articles of interest to the trade, but gradually there has been a falling off in the number of exhibits. On Tuesday all that was shown were a few specimens of nickel plating by the company, who recently established branch

the trade, our gradually there has been a rating on in the number of exhibits. On Tuesday all that was shown were a few specimens of nickel plating by the company, who recently established branch works at Stockton. There was considerable excitement as the usual frequenters of the iron market began to assemble, a feeling of firmness still prevailing. There certainly are signs of revival in trade in the North of England. The owners of pits and coke ovens frequencies still prevailing. There certainly are signs of revival in trade in the North of England. The owners of pits and coke ovens are making large contracts at an advance in some cases of 1s. 6d. per ton. Several iron firms have received orders which will keep them employed during the winter. Some of the coal pits are again being opened for working operations. At Crook two pits are being put on, and Rough Lee and others in the Bishop Auckland district are to be reopened. For delivery next year sellers are quoting coke 10s. per ton at the pit. At the commencement of the market, No. 3 was quoted 51s. per ton, and small parcels changed hands at 50s. An order of 500 tons was booked at 49s. per ton, No 3; 48s. was paid for No. 4 foundry; and forge was sold at 47s. 6d. per ton at the works. We have already mentioned that some of the pig makers contemplated blowing in certain furnaces which have been idle so long. Messrs. Samuelson and Co., of the Newport Ironworks, have blown in one, and arrangements are being made by the following firms in the Middlesbrough district for recommencing furnaces which have long been out of blast:—Messrs. Bolckow, Vaughan, and Co., two; Messrs. Bell Brothers, two; and Messrs. Gilkes, Wilson, Pease, and Co., one. The demand for pig-iron is good, and whatever may be said about there being a great deal of speculation mixed up with business, it is a fact that the shipments at Middlesbrough are active. The iron is actually going away and stocks are being reduced. Messrs. Swan Brothers, who, as merchants in both Glasgow and Middlesbrough, have taken such a prominent part in the revival, and in the execution of orders on American account, have another big steamer chartered to cross the Atlantic from Middlesbrough with pig-iron. The manufactured iron trade prices are advancing, but it is stated that that is not due to the increased demand, but to the fact that the owners of mills and forges are compelled to raise their quotations owing to the cost of raw materials increasing. Plates to-day advanced in proportion. Railway chairs are in better request, and have been raised 7s. 6d. per ton. The East Argentine Republic have ordered a supply of Mr. Woods wrought-iron sleepers.

REPORT FROM MONMOUTHSHIRE AND SOUTH WALES.

Oct. 9.—The Commissioners appointed to investigate the causes of explosions in mines have been on a visit to this district during the week. On Tuesday they visited Abercam, the scene of the disaster last year, and the Cwmcarn shaft. They descended the Celynen pit; and afterwards went down Harris's Navigation Colliery, where they inspected the vast machinery, and descended the shaft, which is 760 yards deep. On Wednesday and to-day they were to take evidence at Aberaman House, the residence of Sir Geo. Elliot, Bart, M.P. The following members of the Commission were present on Tuesday:—Sir Geo. Elliot, Mr. Burt, M.P., Professor Smyth, Professor Abel, Mr. Wm. Thos. Lewis, and Mr. A. Williams (barrister), secretary. They were accompanied among others by Mr. Thos. Cadman, Mines Inspector, and Mr. James. On Friday a visit will be paid to Dinas Colliery. It is intended, in consequence of the success which has attended the conveyance of hot metal from the Sirhowy Works to the steelworks at Ebbw Vale, to construct a larger locomotive to carry two cauldrons at once. The engine and breakvan at present make five journeys by day and the same at night. The news which come to hand this week from various parts of the district is such as to lead one to believe that a decided revival in the iron and steel trades has at length set in. It is a long time since such a satisfactory statement as can be made in this report has been able to be submitted to readers of the Journal. In times past so many false rumours have been started as to Cyfartha that at lock at them as partsking of the nature of the Oct. 9.-The Commissioners appointed to investigate the causes past so many false rumours have been started as to Cyfartha that at last people began to look at them as partaking of the nature of the old fable, in which the shepherd boy called "Wolf, wolf," when none ast people began to look at them as partaxing of the nature of the old fable, in which the shepherd boy called "Wolf, wolf," when none was near the fold. At last, it is stated, and there is no reason to doubt the statement, that a partial restart will shortly take place at the well-known establishment of the Crawshay's, and as a consequence great satisfaction is felt in the district. At Landore Works, too, the blast furnaces and coke ovens are to be utilised for the reduction of the large quantities of iron ore which the company intend to import. The pig-iron thus produced will be used mainly for conversion into steel rails and armour plates. Powerful machinery has been lately added to the works. Important news also comes to hand in reference to the Blaenavon works. These have been purchased, and it is to be hoped that shortly the establishment will resume its wonted activity as the Cwmbran works, belonging to the patent Nut and Bolt Co. Preparations are being made to increase operations; a new mill will be almost completed. Under the above circumstances, it may be fairly assumed that a general change for the better has set in. There is a slight improvement in quotations for finished iron, and for pig-iron prices have gone up very rapidly. Stocks have been largely decreased at the works. The American demand continues good, and large clearances have been made to the United States.

The Tin-plate Trade also shows a fair amount of activity, and the

States.

The Tin-plate Trade also shows a fair amount of activity, and the Transatlantic demand is well kept up. Prices, too, are better. The Tydee works are shortly to be restarted; and Mr. Phillips has com-

Transatlantic demand is well kept up. Prices, too, are better. The Tydee works are shortly to be restarted; and Mr. Phillips has commenced operations at the old Blaina works. The men seem resolved to well support the Union they have formed.

There is as yet no change to be noted in prices for coal, but as the inquiry is excellent it is expected that a change for the better in quotations will shortly follow. Shipments are very large. For steam coals the demand is well kept up, and as the pits are working steadily the out-put is considerable. The house coal trade is also brisk. A section of house coal colliers have held a meeting and decided to have an Union of their own, apart from the steam coal men. A general delegate meeting of men has been convened. At the Pentre Police Court, Ben Lewis, late a fireman at the Dinas Colliery, sued the company for 71. in lieu of a month's notice. For the defence it was alleged that defendant was incompetent; but the Bench held that was not the case, and ordered the money to be paid. At the Tredegar Police Court three hauliers were fined in a nominal amount for leaving their work at the South Wales Collieries. In consequence of their conduct the colliers were kept idle. The other defendants aoknowledged they were in the wrong, and the summonses were withdrawn. They were told by the Bench that men must not leave their work in any pit through an accident occurring unless in the immediate vicinity of the place they are working.

Petitions have been presented to the High Court of Justice for the winding-up of the Bryn Alyn Lead Mining, and the Westminster Association.

PERRY COLLIERY (LIMITED), PERRY BARR,

NEAR BIRMINGHAM.

IN LIQUIDATION. MESSRS. JOSEPH COOKSEY AND SON have received instructions from the Liquidators TO SELL, BY AUCTION, on Tuesday and Wednesday, the 14th and 15th days of October, 1879, on the Premises in the occupation of the company, commencing each day at Eleven o'clock precisely, the serve superior.

MACHINERY, ERECTIONS, COLLIERY PLANT, & STOCK,

MACHINERY, ERECTIONS, COLLIERY PLANT, & STOCK,

Consisting of a—

Commodious BRICK ENGINE HOUSE, 48 ft. by 25 ft., with pine hip roof, boarded and slated, containing a powerful horizontal high pressure PUMPING ENGINE, 33 in. cylinder 5 ft. stroke, with massive fity wheel (built to the order of the company by Leigh, of Patricroft); PUMPING APPARATUS, comprising connecting gear, reeler, and two massive cast iron T Beams; about 345 yards of pitch pine pump rods, with wrought iron coupling plates; about 57 yards of 15½ in. and 48 yards of 15 in. pump trees, with new 1½ in. working barrel; bucket, door pieces, and sliding stalks; new 12 in. PLUNGER, duplicate pinion rown wheel and crank; a double cylindrical CAPSTAN ENGINE Clunlop, Hislop, and Co., Liverpool), on strong cast iron frame, with winding drum and brake, complete; and about 400 yards of 1½ in. diameter galvanised steel wire capatan rope; lofty capatan frame; boiler house, with galvanised iron roof; boiler seats and lofty chimney stack; Galbouy boiler, 30 ft. long by 7 ft. diameter, and fittings; boiler feed ENGINE and PUMPS; drum wall and winding drum (worked by capatan engine), and about 300 yards of 1½ in. diameter galvanised steel wire capatan rope; ENGINE HOUSE, part brick and part wood, containing a horizontal high pressure WIDING ENGINE, 12½ in. cylinder 2 ft. 3 in. stroke, on cast iron bed plate; winding drum and brake, and about 500 yards of 1 in. diameter steel wire winding rope; vertical boiler, 12 ft. long 5 ft. diameter, with steel rails and points and crossings; quantity of wrought iron tram rails; nine wrought iron sinkers bowls; air and water troughs; large wood pit scaffold; quantity of large pine baulks and other heavy and light timber and pit curbing; it wo dirt wagons; two double power winches; four pairs of blocks; two lifting jacks; quantity of large pine baulks and other heavy and light timber and pit curbing jacks; quantity of lashing chains; sinkers tools; smiths tools; portable smith forge; sets of creewing and drilling tackle; 5

claciplece; small T beams, &c.; use iron; new 20 cwt. portable weighing machine (Avery's); smaller ditto; office furniture; rick of hay; and a variety of other effects.

The MACHINERY and PLANT are of the very best material and workmanship, and in first-rate condition, the greater part having been constructed specially for use at the colliery; and as the whole must be removed from the premises before the end of January next, the sale affords an opportunity for purchasing machinery of a high class which seldom occurs.

The Colliery is situated within a few minutes walk of the Great Barr Station, on the London and North-Western Railway between Birmingham and Walsall. It is connected by a siding with the railway, which will be sold subject to its remaining undisturbed for for a sufficient period to allow of its being used, if required, for the removal of the machinery and other colliery plant.

Catalogues may be had on application to Messrs. Horrow, Lee, and Lee, Solicitors, Newhall-street, Birmingham; Messrs. Canten and Carter, Accountants, 33, Waterloo-street, Birmingham; Messrs. S. and J. Bailey, Mining Engineers, Ferry Barr, Birmingham; to the Auctioneers, Paradise-street, West Bromwich; or at the Place of Sale.

SOUTH ROMAN GRAVELS MINES.

IN LIQUIDATION.

IN LIQUIDATION.

Four Miles from MINSTERLY, county of SALOP. Branch on the Shrewsbury and Welshpool Railway.

R. W. BOUSTRED has been honoured with instructions from the Liquidators TO SELL, BY AUCTION, without reserve, on Thursday, the 16th October, 1879, the valuable

STEAM ENGINES AND MACHINERY

An excellent nearly new 22 in. cylinder ROTARY ENGINE, 4 ft. stroke, with link motion; capital 14 horse power PORTABLE ENGINE, 4 ft. stroke, with link motion; capital 14 horse power PORTABLE ENGINE, with double cylinders, by Fowler, of Leeds; powerful pumping and winding gear, complete; 7 ton Cornish boiler, 24 ft. long and 6 ft. diameter; capstan; 9 and 10 in. lifts, with H and door pieces; pulleys; treble blocks; pitch pine; main rods; double power crab winch; balance bob; horse whims; ropes; chains; miners' tools; the contents of smiths' shop; new bellows; anvils; steel bars; hangers; and other effects described in catalogues, to be had at the Auctioneer's Office, Pontesbury, or by post on application.

Sale to commence at Twelve for One o'clock punctually.

BAGILLT LEAD WORKS,

COUNTY OF FLINT. IMPORTANT TO IRONFOUNDERS, MINE AND QUARRY OWNERS, CONTRACTORS, AND OTHERS.

MESSRS. WILLIAM DEW AND SON have been instructed by Messrs. WALKER, PARKER, and Co., TO SELL, BY PUBLIC AUCTION, at the Works, as above, on Thursday, October 18th, 1879, at 1:30 F.M. prompt, the following MACHINEEY, &c., &c., viz.:—

A PAIR of cast iron CRUSHERS; a PAIR of powerful BLOWERS; about 10 tons WROUGHT SCRAP IRON; a 50-horse power double beam STEAM ENGINE, 18 in. cylinder, 5 ft. 6 in. stroke, 18 ft. fly wheel, &c.

A grand 400 horse power double beam ENGINE, by John Taylor and Sons, 46 in. cylinder, 7 ft. 6 in. stroke, 28 ft. 6 in. fly wheel, 25 ft. beam.
All further information may be obtained on application to A. P. Skipwith, Esq., or Mr. Huohes, at the Works; and the Auctioneers, Wellfield House, Bangor, and Town Hall, Rhyl.

ADJOURNED SALE OF SILVER-LEAD MINE. THE SALE OF THAT VALUABLE SILVER-LEAD MINE, called GIBBAS, situated in the ISLAND OF SARDINIA, with the MACHINERY and PLANT thereon, as recently advertised, has been ADJOURNED until Friday, 24th October current, at Two o'clock in the afterneon, within Dowell's Rooms, No. 28, George-street, Edinburgh.

To ensure competition, the upset price has been fixed at £500.

For particulars, apply to JAMES MARTIN, C.A., 49, Castle-street, Edinburgh; or to Messrs. GILLESPIE and PATERSON, W.S., \$1A, George-street, Edinburgh, Scotland.

VALUABLE FREEHOLD COLLIERY WITH COAL AND

VALUABLE FREEHOLD COLLIERY WITH COAL AND IRONSTONE MINES.

TO BE SOLD, either the WHOLE or PART of LESSOR'S INTEREST in a LARGE FREEHOLD COLLIERY in one of the North Midland Counties, also a LARGH AREA of LEASEHOLD COAL, with power to work thereout as much as possible during eleven years, without any further payment to Lessor.

The coal is of high repute in the London and Southern Markets, and the plant is powerful and efficient, and included in the Lessor's interest, and is capable of raising a minimum of 4000 tons of coal per week. There is ample siding accomodation in connection with the Midland Railway Company's Main Line to London. The Advertiser would be prepared to CO-OPERATE with the PURCHASER in WORKING the COLLIERY, finding his proportion of Capital for such purposes. For particulars, apply to Mesers. J. and P. Hisson, Civil and Mining Engineers, 18, Crown Buildings, Booth Street, Manchester.

TO CAPITALISTS, PROPRIETORS, AND INVESTORS TO BE LET, ON LEASE, on easy terms, a MINERAL PROPERTY on "DERWENTWATER BAY ESTATE," KESWICK, CUMBERLAND, KNOWN BE.

SALTWELL PARK LEAD MINE.

It contains a wide lode of quartz, in which blends and lead ores are found, besides other minor lodes, and a copper lode pass through the property. The rock is Skiddaw slate, the vein shows great promise, and where it is exposed good stones of galena have been broken.

For further particulars, and permission to inspect and see the Mining Engineer's Report, apply to Messrs. Budd, Sox, and BRODE, Solicitors, 33, Bedfordrow, London; or to Mr. JOHN KEENLISIDE, Land Agent, Keswick.

FOR SALE, a NEW 70 inch cylinder CORNISH BEAM PUMPING ENGINE, 10 ft. stroke in cylinder and 9 ft. in the shaft, with steam case, metallic piston, and wrought gudgeon. The false cover, perpendicular pipes, weigh posts, working and nozzle gear all fitted bright. A strong substantial well made engine, complete, including cast-fron casings for top and bottom nossles with bright covers, holding down bolts and wrought-iron caps and bolts for connection te main rod.

Apply to William's Perran Foundry Company, Perranarworthal, Cornwall. Dated Jan. 29, 1879.

FOR SALE, a VALUABLE PROPERTY of about 18 acres in SOUTH WALES, rich in MINERALS, very advantageously situated near several towns, and within a mile of a railway.

For further particulars, apply to POWELL and POWELL, Auctioneers and Estate Agents, Union-street, Bath.

POR SALE, at NEW PEMBROKE MINE, CORNWALL:—
Au excellent 25 in. DRAWING ENGINE and TWO BOILERS.
TWO SPARE BOILERS.
THREE IRON STAMPS AXLES.
100 fathoms FLAT RODS, 3½ inch.
8 arm CAPSTAN IRON AXLE.
A quantity of ROD PLATES and OTHER MATERIALS.
Apply to Mr. John Polkinghorne, Woodlands, Par Station.

IRON ORE.

FOR SALE, about 2730 hectares of LAND, with IRON ORE
MINES, situated on the Banks of the Rhine. The ore contains, according
to analysis, 44-62 per cent. Iron, and 1-045 per cent. Phosphorus.
For particulars, apply to the Editor, "St. Johanner Zeitung," Saarbrücken,
Prussia.

TOT AIR ENGINE FOR SALE (1-horse power), A BARGAIN,
Ryder's patent, by Hayward Tyler and Co., combined for power and pumping. In splendid condition; only been worked a few months. Cost #34; want
80 for it. e, N. S. O'REILLY, Shelton House, Littlehampton.

FOR MINERAL BORING, SHAFT-SINKING, AND SURVEYING,

APPLY TO

E. J. BEOR, NETHEROP, NEAR CHEPSTOW.

Mr. Bron is about leaving for Germany, France, Belgium, Denmark, and orway, where communications will be forwarded to him.

NICKEL AND COBALT REFINING, AND GERMAN SILVER
WORKS, 16, OOZELL STREET, NORTH, BIRMINGHAM.
STEPHEN BARKER begs to inform the Trade that he has the following

:-- REFINED METALLIC NICKEL.
REFINED METALLIC BISMUTH.
OXIDE OF COBALT.
GERMAN SILVER-IN INGOTS, SHEET, WIRE, &c.
NICKEL AND COBALT ORES PURCHASED.

GOLDENHILL COBALT, NICKEL, COLOUR, BORAX, AND CHEMICAL WORKS,
NEAR STOKE-UPON-TRENT, STAFFORDSHIRE.

JOHN HENSHALL WILLIAMSON, MANUFACTURER AND REFINER.
Purchaser of Borate of Lime and Tincal.

IN NORWAY.

TWO MINES, containing, according to analysis, the one 2 and the other 325 Per cent. NICKEL and COBALT, TO BE SOLD VERY CHEAP. Both mines are very favourably situated near a town, and good load-

ing place.

The quantity of metal ore is, according to appearance, immeasurably great, and the workings very easy.

For further particulars, apply to Mr. T. C. IROENS, Laurvig, Norway.

TO INVESTORS IN MINES.

LAST LONGSTONE MINE SHARES ARE REMARKABLY CHEAP, and the future prospects better than any new mine in the West.

A few shares may be had at 20s. net by applying to the Secretary, 145, Union-street, Plymouth.

A List of Progressive Tin, Copper, and Lead Mines will be sent post free on application.

POBSALE, free on board, Caen or Granville, LARGE TWICE AS DURABLE as the unbarked MARITIME pine mine props of Bordeaux or Brittany, usually employed in England.

Address, V. de Failly, Bourberouge par Mortain (Manche), France.

TO PARENTS AND GUARDIANS.

TO PARENTS AND GUARDIANS.

AN ELIGIBLE OPPORTUNITY is now offered for the SETTLEMENT of an ACTIVE YOUNG GENTLEMAN IN CANADA. He will be enabled to obtain his profession as a Solicitor in five, or if he be a Graduate in three years. Cost of living about £150. In the meantime he will have active work, and obtain a knowledge of the Dominion, which is destined to become one of the most prosperous of the Colonies. Fremium, £100 sterling.

HERBERT O. JONES,

32, Wellington-street, Toronto.

TIN AND COPPER.

THE ADVERTISER has SOME THOUSANDS OF POUNDS WORTH of INTEREST in what will become a VERY RICH MINE he fully believes. Wishes to meet with a Gentleman to TAKE a PART of the INTEREST. He will be let in at cost price, whereby a very large sum will be made without the slightest risk, as the company is Limited. A capital opportunity this. Tin has risen £5 per ton this week, and £7 per ton since Aug. 12. Full particulars from "Mineral," MINING JOURNAL Office, 28, Fleet-street, London, E.C.

IMPORTANT TO INVESTORS.

THE ADVERTISER has SECURED a VERY VALUABLE CHINA-CLAY PROPERTY. The clay is of the very best quality; it always commands a ready sale at the very highest market prices. The clay is well known to all large buyers and consumers. There are large kilns, tanks, and micas on the works. Bouth-Western Railway passes in front of kiln. Satisfactory reasons given for late proprietors going out. With a little extra machinery 12,000 tons per annum can be put in the market at a good profit. WANTED, the assistance of a few capitalists, or a capitalist, to THOROUGHLY WORK THE PROPERTY. Every investigation is courted.

For full particulars, address to "J. E. R.," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

HORIZONTAL ENGINE, 15-horse power, strong, and well-finished, with fly-wheel, wrought crank shaft 5-in. diameter, and massive box bed; suitable for winding or general purposes; quite new. Price £70.

WINDING ENGINES, pairs of 8 in. and 6 in, ready, with gearing and drum, all complete on one bed plate, suitable for either surface or underground. The neatest, strongest, and most compact arrangement in the market, and very cheap.

BOILERS requiring no brickwork supplied if required.
4-horse power VERTICAL ENGINE and BOILER—the best make.

BENCH DRILLING MACHINE—splendid tool for hand or power; very cheap.

ALEXANDER SMITH,

WORCEST

INGINEER, DUDLEY, WORCESTERSHIRE.

18 H.P. PORTABLE STEAM ENGINE, with link motion, reversing gear, ready for delivery; also gear to wind and pump.
p. VERTICAL STEAM ENGINE, with link motion, reversing gear reversing gear, ready for delivery; also gear to wind and pump.
A 9-h.p. VERTICAL STEAM ENGINE, with link motion, reversing gear
winding drum if required).
A 6-ft. PAN MORTAE MILL, VERTICAL ENGINE, and BOILER, with
arriage and travelling wheels. Apply to— BARROWS AND STEWART, ENGINEERS, BANBURY.

22 IN. AIR COMPRESSOR, on massive bed-plate, with slide bars, connecting rods, and crank, FOR SALE (OHEAP). Improved AIR COMPRESSING ENGINES, with 12 and 9 in. cylinders. Also FAIR OF 9 inch WINDING ENGINES complete, with 4 feet drum,

WARSOP AND HILL, ENGINEERS, NOTTINGHAM.

TO MINERS IN NORTH AMERICA

J. S. PHILLIPS, M.E., CALIFORNIA STREET, SAN FRANCISCO,

EXAMINER OF MINES, MINERAL ASSAYER, &c.

EXAMINER OF MINES, MINERAL ASSAYER, &c.

Practical Instructions for Testing and Assaying, by Blowpipe, Chemicals, Crucible Scorifier, &c.

Author of the "Explorers, Miners, and Metallurgists' Companion," a practical work of 672 pages, with \$1 illustrations. Price, second edition, \$10.50.

Inventor of the "WEE PET" Assaying Machine, which obtained a GOLD MEDAL at the San Francisco Mechanics Institute Fair of 1869. Price \$100.

Having had Thirty Years' experience (twenty in Cornwall and ten in U.S., America), offers his services to those requiring ADVICE on MINES or MINING, ENGINEERING, ASSAYING, SMELTING, MILLING, and CHEMICAL REDUCTION.

REFERENCES.

REFERENCES.
In England—The London Mining Journal, and leading Cornishmen.
In California—The Mining and Scientific Press, and principal Miners.

Just published, cloth limp, price 1s. 6d.,

THE COLLIERY READY-RECKONER AND WAGES
CALCULATOR.

"Will be the means of preventing many disputes between pay clerks and colliers."—Mining Journal.

To be had on application at the MINING JOURNAL Office, 28, Fleet-street, E.C.

MEXICO, NEW MEXICO, ARIZONA, UTAH, NEVADA

AND CALIFORNIA. F. M. F. CAZIN,

MINING AND CIVIL ENGINEER, At RERNALLILLO, NEW MEXICO, U.S. OF AMERICA.

At BERNALLILLO, NEW MEXICO, U.S. OF AMERICA.

Has 24 years' experience in Mining and Smelting, and 10 years experience in American Business and Law, offers his services at moderate charges for Reporting on Mining and other Property in any of the above-named States or Territories gives correct, safe, and responsible advice as to securing full titles and possession and, as to best mode of utilising the property, will assist in settling existing difficulties by compromise, and in disposing of developed mining property when held at real value; offers his assistance for securing undevoloped mining properties at home prices. As to care taken in reporting, reference is made to the Mining Journal Supplement, April 1, 1876, containing a report on property of the Maxwell Land Grant and Railway Company; as to technical standing, to the prominent men of the trade-compare Mining Journal of Aug. 30 and Nov. 31, 1972, and Nov. Jerk Engineering and Mining Journal, 38th. 32, 1874.

HE F. I'A AL: B. LE: GE J. I WA CRO

ALEX. WILSON & CO.,

VAUXHALL IRONWORKS, LONDON,

MANUFACTURERS OF



THE VAUXHALL DONKEY PUMPS. THE EXCELSIOR DIRECT-ACTING

Air Compressors. Winding Engines.

HOISTING MACHINERY.

ILLUSTRATED AND PRICED CATALOGUES ON APPLICATION.







PARIS, ORDER OF THE CROWN OF PRUSSIA. FALMOUTH, BRONZE MEDAL, 1867. SILVER MEDAL, 1867.

A DIPLOMA-HIGHEST OF ALL AWARDS-given by the Geographical Congress, Paris, 1875-M. Favre, Contractor, having exhibited the McKean Drill alone as the MODEL BORING MACHINE for the St. GOTHARD TUNNEL.

SILVER MEDAL of the Highland and West of Scotland Agricultural Society, 1875-HIGHEST AWARD.

At the south end of the St. Gothard Tunnel, where

THE MCKEAN ROCK DRILL

Are exclusively used, the advance made during eight conse tive weeks, ending February 7, was 24.90, 27.60, 24.80, 26.10, 28.30, 27.10, 28.40, 28.70 metres. Total advance of south heading during January was 121.30 metres, or 133 yards.

In a series of comparative trials made at the St. Gothard Tunnel, the McKean Rock Drill continued to work until the pressure was reduced to one-half atmosphere (71 lbs.), showing almost the entire motive force to be available for the blow against the rock—a result of itself indicating many advantages.

The GREAT WESTERN RAJUWAY has adopted these Machines for the SEVERN TUNNEL; the LONDON AND NORTH-WESTERN RAILWAY for the FESTINIOG TUN-NEL: and the BRITISH GOVERNMENT for several Public Works. A considerable number of Mining Companies are now using them. Shafts and Galleries are driven at from three to six times the speed of hand labour, according to the size and number of machines employed, and with important saving in cost. The ratio of advantage over hand labour is greatest where the rock is hardest.

These Machines possess many advantages, which give them a alue unapproached by any other system of Boring Machine.

THE MCKEAN ROCK DRILL IS ATTAINING GENERAL USE THROUGHOUT THE WORLD FOR MINING, TUN-NELLING, QUARRYING, AND SUB-MARINE BORING.

The McKEAN ROCK DRILLS are the most powerful—the most portable—the most durable—the most compact—of the best mechanical device. They contain the fewest parts—have no weak parts-act without shock upon any of the operating parts-work with a lower pressure than any other Rock Drill-may be worked at a higher pressure than any other -may be run with safety to FIFTEEN HUNDRED STROKES PER MINUTE-do not require a mechanic to work them-are the smallest, shortest, and lightest of all machines-will give the longest feed without change of tool-work with long or short stroke at pleasure of operator.

The SAME Machine may be used for sinking, drifting, or open work. Their working parts are best protected against grit and accidents. The various methods of meunting them are the most efficient.

N.B.-Correspondents should state particulars as to character of work in hand in writing us for information, on receipt of which a special definite answer, with roference to our full illustrated catalogue, will be sent.

TEADS

PORTABLE BOILERS, AIR COMPRESSORS, BORING STEEL, IRON, AND FLEXIBLE TUBING.

The McKean Drill may be seen in operation daily in London.

McKEAN AND CO.

ENGINEERS

OFFICES.

S, RUE SCRIBE, PARIS

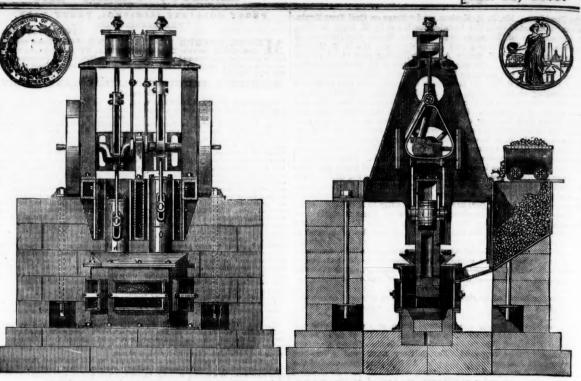
MANUFACTURED FOR MCKRAN AND CO. BY MESSES, P. AND W MACLELLAN, "CLUTHA IRONWORKS," GLASGOW.

> Now ready HOLTZAPFFEL'S

TURNING AND MECHANICAL MANIPULATION. VOLUME IV.

THE PRINCIPLES AND PRACTICE OF HAND OR SIMPLE TURNING.

Illustrated by upwards of 750 woodcuts. By JOHN JACOB HOLTZAPFFEL, Assoc.Inst.C.E, &c. Table of contents, free by post on application to Houszappran and Oo., \$4, Charing Cross, and 127, Long Acre.



SHOLL'S PATENT DIRECT-ACTING PNEUMATIC STAMPERS.

For Pulverising Tin and Lead Ores, Gold Quartz, &c., SOLE MAKERS FOR CORNWALL,

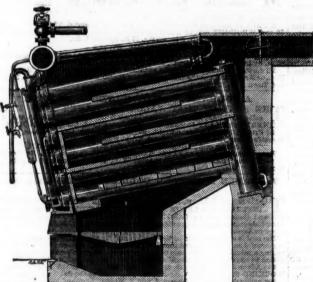
HOLMAN AND

ST. JUST FOUNDRY, NEAR PENZANCE. CORNWALL.
ROTARY STAMPERS SUPPLIED ON THE SAME PRINCIPLE, ALSO WITHOUT STUFFING BOXES OR GLANDS,
WHERE RUNNING GEAR EXISTS, OR WITH HORIZONTAL CONDENSING ENGINES AND BELTS TO
DRIVE THEM, IF PREFERRED.

Also, SOLE MAKERS OF STEPHENS' PATENT PULVERISER. MINING AND OTHER MACHINERY CONSTANTLY ON SALE, NEW AND SECOND-HAND.

BARROW

SECTIONAL BOILER



MARK

THE BARROW SHIPBUILDING COMPANY beg to call the particular attention of Steam Users to the great advantages to be obtained by adopting their Improved Sectional Boilers. After the most careful experiments extending over some years, and having worked these Boilers in their own workshops under the most varying conditions, and subject to the most crucial tests, they have every confidence in recommending them to the public.

The Boilers are constructed of the years best massivily.

public.

The Bollers are constructed of the very best material, combined with the most careful workmanship, every Boiler being tested to 300 lbs. per square inch, and made absolutely tight and perfect before leaving the company's works.

Each Boiler, in addition, is sold with the certificate of the Inspecting Engineer of one of the first Boiler Insurance Companies in the country.

For particulars, apply to the-

BARROW SHIPBUILDING CO.

BARROW-IN-FURNESS.

Or at their London Office. MILDMAY CHAMBERS, UNION COURT, OLD BROAD STREET, E.C.

JOHN MARSDEN,

Air Tubing and Improved Brattice Cloth,

Tarred, Oiled, and Non-Inflammable.

THE OILED CLOTH IS ESPECIALLY RECOMMENDED FOR DAMP MINES, AND IS ALSO A GOOD COVERING FOR SHEDS. THE NON-INFLAMMABLE FOR THE MORE DANGEROUS MINES.

Samples and prices free, on application at the Works,

VARLEY STREET, OLDHAM ROAD, MANCHESTER.

British and Foreign Safety Fuse Company, REDRUTH, CORNWALL,



SAFETY FUSE.

FOR MINING AND QUARRYING PURPOSES.

RICHA OR APPLICATION

Apply to-

T,

1,

NOBEL'S

MANUFACTURED AND SOLD BY

NOBEL'S EXPLOSIVES COMPANY (LIMITED), 149. West George Street, Glasgow.

Supplies may be obtained from any of the following Agents of the Company in Great Britain:-Supplies may be obtained from any of the following Agents of Henry Kitchin and Co., '46, New Lowther-street, Whitehaven. F. H. Edwards, Forth House, Newcastle-on-Tyne. I'Anson, Armstrong, and Co., Middlesbro'-on-Tees. Albret Ricketts, Dean-lane, Bedminster, Bristol. B. Rrad, Reforne, Portland, Dorsetshire. Leigh and Sillavan, Barton House, 66, Deansgate, Manchester. George Roberts. George-street, Gloucester. J. H. Bean and Co., 6 Albion-street, Leeds. Wm. Rich and Sons, 4. Baset-street, Redruth, Cornwall. Cross Brothers, 21, Working-street, Cardiff. G. Williams, 6 and 7, Baker-street, Aberystwith. Webb and Co., Llanberis, Caernarvon.

f the Company in Great Britain:

J. T. Eachus, Holywell.
Johnson and Co., Tower-street, Dudley.
Todhunter and Elliot, Market-place, Douglas, Isle of Man Robert Hamilton, 29, St. James's-equare, Edinburgh.
John Donald, 4, Belmont-street, Aberdeen.
William Watson, Sunnyside-road, Coatbridge.
Robert Hamilton, Douglas-street, Dunfermline.
John D. M'Jannet, Park-place, Sterling.
Charles Cunningham, 62, Commercial-street, Dundee,
R. and J. Carson, 8 and 10, Corn Market, Belfast.
Cloherty and Semple, Merchants' Road, Galway.
Cooke Brothers, 67, Patrick-street, Cork.
Export Agents:

London and Export Agents:

J. and G. THORNE and CO., 85, GRACECHURCH STREEF, LONDON, E.C. FACTORIES—ARDEER WORKS, STEVENSTON, AYRSHIRE.
WESTQUARTER WORKS, POLMONT STATION, STIRLINGSHIRE.

OR COTTON POWDER. TONITE, THE SAFEST, CHEAPEST, AND STRONGEST OF ALL EXPLOSIVES.

RECOMMENDED TO MINERS, PIT SINKERS, QUARRYMEN AND CONTRACTORS AS THE MOST EFFICIENT AND ECONOMICAL BLASTING AGENT EVER INVENTED.

OFFICES 23, QUEEN ANNE'S GATE, LONDON, S.W. Agents: Dinern, Son, and Co., Leeds; John Russell, Whitehaven; R. J. Cunnack, Helston, Cornwall; J. and W. Smith, Chapel-en-le-Frith; W. Veitch, Jedburgh, N.B.

PATENT DETONATORS.

FIRST-CLASS DETONATORS MANUFACTURED FOR THE TRADE ON THE MOST FAVOURABLE TERMS. The COTTON POWDER COMPANY (Limited), 23, Queen Anne's Gate, London, S.W.

ROCK DRILLS, AND DIAMOND BORING MACHINERY. AIR COMPRESSORS, SINKING AND DRIVING APPARATUS. ELECTRIC FUSES, BORNHARDT'S & BRAIN'S FIRING MACHINES.

Electric Cables, Dynamo Machines, Motors, and Transfer Power Apparatus. Mining and Ore Dressing Machinery.

JOHN DARLINGTON, 2. COLEMAN STREET BUILDINGS. MOORGATE STREET, LONDON.

MACHINERY. MINING

Schram's Patent Direct-acting Rock Drill, & Improved Direct-acting Air Compressor.

IMPROVED SUPPORTS FOR DRIVING, SINKING, ETC. CONTRACTS TAKEN. MACHINES LET ON HIRE.

SCHRAM AND OLIVER'S PATENT COAL CUTTER.

RICHARD SCHRAM AND CO.,

CONSULTING ENGINEERS. 9, NORTHUMBERLAND STREET, CHARING CROSS, LONDON, W.C. Messrs. OLIVER and CO., Limited, SOLE MANUFACTURERS, BROAD OAKS IRONWORKS, CHESTERFIELD.

Also the best WINDING and HAULING ENGINES, BOILERS, PUMPS, &c., &c., GUIBAL VENTILATING FANS, AIR RECEIVERS, WAGONS, PIT-HEAD STOCKS, SCHRAM'S STONE-CUTTING MACHINE, and every description of COLLIERY and MINING PLANT and CASTINGS. Illustrated Catalogues and Price Lists, and references to places where the machinery may be seen in operation, on application. The Rock Drill may be seen at 9, Northumberland-street, as well as at Chesterfield.

BRYDON & DAVIDSON'S ROCK DRILL.

SELECTED BY THE BRITISH AND OTHER GOVERNMENTS.

IMPROVED AIR COMPRESSORS.

Makers of Pumping and Winding Engines, Steam Hammers, Boilers, Pump Pipes, &c., &c. Castings of all kinds.

BRYDON AND DAVIDSON, ENGINEERS, WHITEHAVEN.

MANCHESTER WIRE WORKS.

NEAR VICTORIA STATION. MANCHESTER.

(ESTABLISHED 1790).

JOHN STANIAR AND CO.,

Manufacturers by STEAM POWER of all kinds of Wire Web, EXTRA TREBLE STRONG for LEAD AND COPPER MINES.

Jigger Bottoms and Cylinder Covers woven ANY WIDTH, in Iron, Steel, Brase, or Copper EXTRA STRONG PERFORATED ZINC AND COPPER RIDDLES AND SIEVES

Shipping Orders Executed with the Greatest Disputch.

JOHN BEATSON & SON, 40h, St. Mary's Gate, Derby.



TRON AND STEEL RAILS, of all sections, from 10 to 86 lbs. per yard, new perfect, new slightly defective, or second hand, with Fish plates Bolts and Nuts, Chairs, Spikes, and Points and Crossings to match, when required

STEEL AND IRON WIRE ROPES, LOCOMOTIVE ENGINES, &c., &c.

BARS, PLATES, SHEETS, &c.

BTEEL OF ALL KINDS. PIG IRON GF ALL KINDS

Delivered at all Railway Stations and Ports in Great Britain.

DUNN'S ROCK DRILL.

AIR COMPRESSORS.

FOR DRIVING BED ROCK TUNNELS, SINKING SHAFTS, AND PERFORMING OPEN FIELD OPERATIONS,

CHEAPEST, SIMPLEST,

Dunn's Patent Rock Drill Company OFFICE,-193, GOSWELL BOAD LONDON, E.C.

CRAVEN AND SPEEDING BROS.,

MANUFACTURERS OF EVERY DESCRIPTION OF WIRE AND HEMP ROPES

COLLIERIES, RAILWAYS AND SHIPPING, &c

COLLIERIES, RAILWAYS AND SHIPPING, &c
Charcoal and Steel Wire Ropes (Flat and Round), of best selected Charcoal and Steel Wire.
Guide Rods.
Galvanised Wire Signal Cord.
Galvanised and Plain Strand for Feneing.
Galvanised Wire Rope for Ships' Rigging.
Chains, Wire Rope Pulleys, Brattice Cloth, &c., &c.
Hemp Crab Ropes, of best selected Petersburg and Italian Hemp
Ditto Flat Ropes ditto ditto
Ditto Cordage ditte ditto
Manilla Rope, White and Tarred.
Flax Spun Yarn and Dressed Flax, for Packing.
Brown and White Spun Yarn.
Fine Dressed Petersburg and Italian Hemp, &c., &c.
Ships Rigging dited to order. Estimates and special quotations
supplied on application to
CRAVEN & SPEEDING BROS.

CRAVEN & SPEEDING BROS. Wear Hemp and Wire Rope Works SUNDERLAND.

WIRE ROPES. JOHN AND EDWIN WRIGHT

ESTABLISHED 1770.

MANUFACTURERS OF EVERY DESCRIPTION OF IMPROVED

Patent Round and Flat Wire Ropes, m the very best quality of Charcoal and Patent Steel Wire. Galvanised Wire, Ropes for Ships' Rigging, Galvanised Signal and Fencing Strand, Copper Rope, Lightning Conductors, Colliery Ropes and Steam Plough Ropes made from the best Patent Emproved Steel Wire.

Ropes made from the best Patent Emproved Steel Wire.
PATENT ROUND AND FLAT HEMP ROPES,
Hemp, Flax, Engine Yarn, Cotton Waste, Tarpauling, Oil Sheets, Brattlee
Cloth, Wagon Covers, &c., &c.
UNIVERSE WORKS, MILLWALL, POPLAR, LONDON.
UNIVERSE WORKS, MARRISON STREET, BHMINGHAM.
OITY OFFICE—No. 5, LEADENHALL STREET, E.C.
All communications to be forwarded to the BIRMINGHAM ADDRESS.

MAPS OF THE MINES, AND OF URAH TERRITORY

ROISETH'S NEW AND REVISED MAP FOR 1875,—
Bize 40 by 56 inches, scale 8 miles to the inch. Handsomely engraved, coloured in counties, showing the Towns, Settlements, Rivers, Lakes, Railroads, Mining Districts, &c., throughout the Territory, and all the Government Surveys to date. Mounted on cloth, &2; half-mounted, £112s.; pocket form, £1.

Also, GENERAL MINING MAP OF UTAH, showing twenty-eight of the principal Mining Districts adjacent to Salt Lake City, and location of the most prominent mines. Price, pocket form, &s.

Also, NEW MAP OF LITTLE AND HIG COTTONWOOD MINING DISTRICTS, showing the location of over Four Hundred Mines and Tunnel Sites, together with the Mines Surveyed for United States Patent. Price, sheets, &s.; pocket form, \$8.

For sale, and supplied by—

TRUNKER and Co., 57 and 58 Ludgate Hill, London.

B. A. M. FROISETH, Salt Lake City, Utah, U.S.

THE MINING RECORD. Only \$3:00 a year.

61, BROADWAY, NEW YORK.

Is the ONLY PAPER in the United States that gives FULL LATEST ACCOUNTS from all the GREAT GOLD, SILVER, and other MINES of AMERICA.

ORDERS EXECUTED FOR MINING STOCKS. Information free.

ALEX. ROBT. CHISHOLM, Proprietor.

London Office—H. J. CHAWNER, Manager, 3, Catherine-street, Strand, W.C.

Second Edition. Just Published, price \$s. 6d.

A NEW GUIDE TO THE IRON TRADE

OR MILL MANAGERS' AND STOCK-TAKERS' ASSISTANT:
Comprising a Series of New and Comprehensive Tables, practically arranged to
show at one view the Weight of Iron required to produce Boller-plates, Sheet-iron,
and Flat, Square, and Round Bars, as wellas Hoop or Strip Iron of any dimensions.
To which is added a variety of Tables for the convenience of merchants, including
a Russian Table.

Batman's Hill Ironworks, Bradley, near Bilston.

OPINIONS OF THE PRESS.

"The Tables are plainly laid down, and the information desired can be instantaneously obtained."—Mining Journal.
"900 copies have been ordered in Wigan alone, and this is but a tithe of those to whom the book should commend itself."—Wigas Exeminer.
"The Work is replete on the subject of underground management."—M. BANEK, Colliery Proprietor.
To be had on application at the MINING JOURNAL Office, 28, Fleet-street, Londoin.

Free Edition, 152 pages, post free, in envelope, two stamps. The WARNING VOICE.—A Special Medical Book for Young Men on the Cause, Consequence, and Treatment of certain forms of Dathity and Nervounces, viz.—Mental and Physical Depression, Palpitation of the Heart, Soises in the Head and Ears, Impaired Sight and Memory, Indigestion, Pane in the Back, Headache, Piles, Constitution, Hydretics, Dissiness, Local Weshness, Muscular Relaxation, Nervous Irritability, Blushing, &c., resulting from Exchangement of Nerve power, effects of Overwork, City Lite, Worry, Brain Toll, Internation, and other abuses of the system.

Ridress, Dr. H. Sarres, S. Burton Orescent, London, W.C.

THE MINING SHARE LIST.

	BRITIS											100	ч.
Shares					st wk.								
10000	Caron, l, Cardigan*	56	7	6	4216	4714	50	. 308	0	0	0 2	0Oct. 0Feb.	
10240	Devon Gt. Consols, c, a, Tavistock*† Dolcoath, c, t, Camborne	10	0	0	371/2	5 53 40 42	1/2	116	15 11	0 3	0 5	0July 0Aug.	187
6400	East Pool, t, c, Illogan	0	9	9	16	16% 1	71/2	16	15	3	9	0Oct.	187
40000	Glasg, Car., c* (30000sh, £1 pd., 1000	00 1	15s.	pd.]	×4	1/2 3	4,	. 0	13	10	0 0	6Aug	
8500	Great Laxey, l, Isle of Man*	. 2	10	0	2 17 17	16 1	7	. 4	- 4	U	U a	0Aug. 0Odt. 0Mar.	187
*0000	Großwinion, s, Cardigan	-		0	3	274 3	24			10			
	Isle of Man, l, Isle of Man*†			0	214			. 82	6	0		0Feb. 0Mar.	
400	Leadhills,* l, Lanarkshire Lisburne,* l, Cardiganshire	. 18	15	θ	36	30 1	b	.697	10	9	1 0	0Mar.	187
9000 20000	Meilanear Copper, Hayle*	5	0	0	10	9 19		68	3	6	0 1	6Aug. 6Jan.	187
1024	North Busy, c, Chacewater	. 1	14	0			2/ "	1 3	9		0 5	0Oct. 0Sept.	187
8063		. 1	-	0	21/4	6% 6 2% 2			4	0	0 2	0Bept.	187
6000	Pennant, l. bar, North Wales	5	0	0	5	4 5			10	0	0 5	0Mar.	187
18000 12000	Pennant, l, bar, North Wales* Prince Patrick, * s-l, Holywell Ditto, pref. (8000 sh. issued)	. 0	10	0	1%	1 13	· ·		15	6	0 0	6July	187
10000 12000	Red Rock,* l, Cardigan Roman Gravels, l, Salop*	7	10	0		9 93	£	. 8	5	0	0 5	0Jan. 0May	187
	South Caradon, c, St. Cleer			0	5234	50 5 13 1		744	10	0	1 0	0Nov. 0Aug.	187
12000	South Condurrow, t, c, Cambornet St. Harmon, t, Montgomery	. 3	0	0	2	1 2			12	0	. 3	0July	187
12000	South Wheal Frances, t, Illogan Tankerville, l, Salop*	. 6	0	0	336	91/2 1	5	38	17	6	0 6		187
15000	Tincroft, c, t, Pool, Illogants Van, l, Llanidloes*	4	5	0	17	17 1	373	24		6		-	
3000	West Chiverton, I. Perranzabuloet	17		0	3	81/4 4					0 10		187
600	West Chiverton, l, Perranzabuloefs West Tolgus, c, Redrath West Wheal Seton, c, Camborness. Wheal Bliza Consols, l, St. Austell.	. 51	0	0	35	40 42		. 446	0 10	0 0	0 15	0Apr. 0Aug.	187 187 187
3000	Wheal Peevor, t, Redruth	. 7	11	•	14	. 14 1		. 1	12	6	0 10	9July	187
			-		-								
	FOREIG		DI	VID	END	MIN	ES.						
35500 30000	Alamillos, l, Spain*†	. 2		0	11/2	3/16	2		19	9	0 1		187
¥0000	Australian, c, Bouth Australia;			·		11/6			3	8	0 2	0Aug.	187
20000 25000	Cape Copper Mining,*† South Africa Cesena Sulph. Co., Remagna, Italy*	10	0	0	30		01/2		17	8	0 10		18
10000	Copiapo, c, Chill' (£20 shares)	. 10	19	0	-			. 7	11	5	0 3	0May	18
23500	Eberhardt and Aurora, s, Nevada*† English and Australian,† c, S Aust	10	10	0	214	11/6	×	. 1	17	9	0 3		
25000	Fortuna, l, Spain*† Frontino & Bolivia, g, New Gran.*	. 2		0	4	416		. 7	6	S	0 1	6Bept	. 18
	Linares, I, Spain*†		-	0	4%				_	10			
1000	Pontgibaud, s-l, France† Port Phillip, g, Clunes*†(£2 shares)	. 20	0	0	18	17 1	9	. 27	6 12	8 0	0 1	6June	18
	Richmond Consol., s, Nevada*†		-	•	836				9	0		************	
40000	Contract Contract & a Pro-				991				-				
80000 22500	Santa Barbara, "g, Brasil Boottish-Australian Mining Co."† Ditto, New Sierra Buttes, g, California"† Ditto, Plumas Eureka 9 St. John del Rey"†(£5 Stock and in		10	0	234	1%	14	. 2	15	p. cer	nt.	May	18
	Ditto, Plumas Eureka	. 2	0	0	3	274	1/6	. 3	1	0		0Oct.	18
40625	st. John del Rey" (25 Btock and m	ult	ple	s dea	it in)	270	175	.183	p.	o. for	half	-year, Jun	e 18
40625	Wistonia (Tondon) a Australia		-										
25000	Victoria* (London), g, Australia W. Prussian (5500 pref. sh. £10 pd.)	. 1	v	W	78	78 7	4		13	1 76		7%June	187

\$ Have made calls since last dividend was paid.

Shares.	Parid	
2560 Aberllyn,* ?, &!, Carnarvon	10 0	0 12 10 12
11583 Bedford Unit. * c. Tavis (£1 liab.)	0 4	0 36 36 56
1533 Bedford Unit., c, Tavis (£! Hab.) 3000 Bettws-y-Coed, * (20000 sh. issued) 8000 Blaen Caelan, * (, Cardigan 3939 Blue Hills, t, c, St. Agnes 3000 Bodidris, * i, bt, Denbighshire 200 Botdiack, t, c, St. Just 10000 British, * st, Wrexham 258 Browngelly, c, St. Neot 2000 Bwich United, * t (£! sh.) Cardigan 50000 Camplian, * c, d, Cardiganshire	1 0	U 1 72 1
3939 Blue Hills t. c. St. Agner	3 0	
30000 Bodidris, * l, bl, Denbighshire	1 0	0 1%1% 1%
200 Botallack, t, c, St. Just	26 5 2 0	0 25 20 25
256 Browngelly, c, St. Neot	0 10	0 3 2½ 3
20000 Bwich United,* 4 (£1 sh.) Cardigan	0 12	6 1/41/4 1/2
20000 Bwich United, * l (£l sh.) Cardigan 50000 Cambrian, * s-l, c, Cardiganshire 200 Cein-y-Mres, * l, Oardigan 20000 Cen. Foxdale, !, I. of Man* (£z sh.) 5120 Clementina, !, Llanrwst* 25000 Coed Mawr Pool, * l, Carnarvon 7500 Oombellack, * t, Wendron 8000 Combridantin, *-l, North Devon 2450 Cook* Kitchen, *, Illogani*; 8400 Crook Burn, * l, Cumberland 14000 Crook Burn, * l, Cardigan 15000 Cwm Brwyno, * l, Cardigan 15000 Cwm Brwyno, * l, Cardigan 15000 Cwm Brwyno, * l, Cardigan 1280 Differenty Concols, ! lb. (Zarnarvon)	2 0	0 2 134 2 2 10 10 12
20000 Cen. Foxdale, I, I. of Man* (£2 sh.)	1 5	0
5120 Clementina, I, Llanrwst*	1 0	0 13/ 1 13/
7500 Combellack, * t, Wendron	2 0	0
8000 Combinartin, s-l, North Devon	0 8 26 14	9 3 21 21
6400 Crook Burn, * l, Cumberland	0 5	9 32½ 3½ 0 ¾ ¾
14000 Crosswood Mining Lands, l*	1 0	U 179 1 179
15000 Cwm Dwyfor,* c, s-i, Wales	1 0	0 234 2 234
	10 0	0 4 6
1024 D'Eresby Mountain, l, bl, Llanrwst. 20000 Denbighshire Consolidated,* l	20 0	0 20 30
12000 Derwent,* l, Durham	4 0	0 14 14 114
12000 Derwent,* l, Durham	0 15	0 1/4 1/2 1/4
5000 East Black Oraig, 1, Scotland 1	5 0	6 11/411/4 11/4
1000 East Chiverton, I, Perranzabuloe	9 10	3 2 1 1/2 2
3000 East Craven Moor, * l, Pateley Bdg.	10 0	0 9 8 9
30000 East Florida, * s-l, Cardiganshire	1 0	0 =
6000 East Goginan, I, Cardigan	2 0	0
10000 East Longstone, * s-l, Lexant	1 0	0 11/8 1 1/8
18000 East Van, I, Llanidloes*	5 0	0 21/221/4 21/4
10000 Dubby Syke, f, Durham* 5000 East Black Orag, * I, Scotland I 6144 East Garadon, c, 8t. Cleer I 1000 East Craven Moor, * I, Pateley Bdg. 3000 East Craven Moor, * I, Pateley Bdg. 3000 East Florida, * * - I, Cardiganshire I 8000 East Goglann, I, Cardigan 1000 East Longstone, * * - I, Lezant 30000 East Koman Gravels, * I, Salop 1800 East Van, I, Lianidloes* 1114 East Wheal Lovell, I, Helston 8000 Elonger * - I, I, St. Iven	10 8	A E E
12500 Frongoch, l, Cardgn (11000 sh. iss.)	2 0	0 8 5 0 21/4 2 21/4
3950 Gawton, c, Tavistock	4 9	6 ½ ½ ¼ 0 ½ ½ ½
20000 Goreu, * s-l, Carmarthen	1 0	0 —
20000 Great Dyliffe, * s-1, Montgomery	1 0	0 11/2 1 11/2
12000 Great Holway.* L. Flintshire	0 18 5 0	0 5 41/4 5
6000 Great Wh. Eleanor, t, North Bovey	1 17	6 34 14 34
9880 Gunnislake (Clitters), t, cl	5 5	0 114114 114
20000 Griffin, s.t., Oarnarvon 9880 Gunnislake (Clitters), t, c. 1 10000 Gwern-y-Mynydd, *s-t, Flintshire.	5 0	0 41/4 4 41/4
10000 Harehope Gill,* l, Durham (£1 sh.)	0 5	0
1200 Hartington Moor,* carb. l, Derby	0 15	01s.6d1s.6d. 02½2½ 2½
3000 Herodsfoot, l, near Liskeardt	1 0	0 2½2½ 2½ 0 ¼ ½ ½
bood Hingston Down, c, Calabook 1	0 6 2 12	
6000 Killifreth, t, Chacewater	2 10	0 3/ 1
12000 Ditto, 10 per cent. pref., £1 each.	0 10	0 78 78 78
5000 Lead Era,* ?, Mold	2 10	
6000 Livingstone Consols t St Agnes	0 10	0 14 14
10000 Loniax, 5-t, I citamanoulos	1 0	0 134 1 134
5120 Lovell, t, Wendron	0 16	0 1 ½ 1 1 ½ 0 2 1 2
7500 Ditto, 10 per cent. pref	2 0	0 21421/6 23/6
9000 Marko Valley, c, Linkinhorne; 1800 Mawaton, * l, South Wales 6000 Medlyn Moor, t, Wendron 11000 Melyndwr, l, Cardigan*	5 3	6 11½ 1½ 0 2 1½ 2
6000 Medlyn Moor, t, Wendron	8 15	10 —
11000 Melyndwr, I, Cardigan"	3 0 10 0	0 134 34 134 0 123411341234 0 134 134 2 0 34 34 34
11000 Monydd Gorddu, I, Cardigan* (Red)	5 0	0 114 114 2
12000 Morfa Du, z, g, s, Anglesea*	1 0	0 34 34
25000 Nant-y-Ronen, s-l, Cardigan*	1 0	0 3 21/4 3
18200 New Cathedral, c, t, Gwennap	1 0	0 1 1%
8000 New Cwmystwith,* 5, Cardigan	3 0	0 114114 114
25000 Nant-y-Ronen, s-t, Cardigan*	6 0	U 3 279 3
4000 North Cornwall,* I, Cornwall	5 0	0 51/ 5 51/6

NON-DIVIDEND BRITISH MINES.

NON-DIVIDEND MINES-00	ntina	sod.
Shares, Pau	. La	et wk. Clos pr.
	0	114 1 114
2000 North Levant, t. c. St. Just! 13	0	74 36 24
50000 North Molton, c, mn, 1, Devon 1	0	1 34 34
2936 North Treskerby, c, St. Agnes 8 1	10	***
12000 Pandora,* l, Carnarvon 2	0	34 3/4 3/4
6000 Park Valley,* s-l, North Devon 0	0	X 1/4 1/4
45000 Parys Corporation, * c, Anglesea 1	0	76 3/ 2/
7500 Pateley Bridge, I, Yorkshire 1	0	W. 32 /2
12000 Pandora,* I, Oarnarvon	0	- "
12000 Pen-yr-Orsedd,* l, Flintshire 1	0	14 1 1%
5000 Penhalls, t, St. Agnes;		1 1
15000 Perran Consols, s-l, Perranzabuloe 1	0	2s 6d. 1s.
12000 Phoenix, & W. Phoenix, t, c, Link. 5. 5 1	3	
7000 Picton, * s-l, Holywell, fully paid 1	U	16 36 1/2
6000 Plympton Mining and Arsenic* 1 12000 Plynlimmon, l. Llanidloes* 2	0	***
10000 Port Nigel.* s-l. Carparyonshire	0	8s 4s. 6s. 1/2 1/4 1/2
2000 Prideaux Wood, t, Llanivery 5	0	73 74 78
	U	
Dood And Junitary of Marcha	0	
15000 Rookhope, l, Durham 1 1	0	14 1/6 1/4
15000 So. Cambrian, * I, Cardiganshire 1	0	134116 114
6000 South Cwmystwith, I, Cardigan 2	J U	78 1/8 3/6
9000 South Darren, l, Cardigan*	J U	13411/2 13/4
512 South Dolcoath, c, t, Redruth 12	0	
18000 South Roman Gravels, I* 1 10		3s 1s. 3s,
	0	
6000 South Tolcarne, t, c, Camborne 2 2043 South Wheal Crofty, c, Illogan 15 1		7 7 8
6000 St. Lawrence, Amal., l. Flintshire*, 2	0	
10000 St. Patrick, l, Halkin, Holywell* 1	0	11/ 1 11/4
30000 Talybont,* s-l, Cardiganshire 1	0	
40000 Tamar, s-l, Bearalston* 1		1361% 156
6400 Teesdale,* l, Durham (pref.) 1	, U	1361½ 1¼ 78 ¾ ¾
30000 Taiybont, **-f, Cardiganshire 1 40000 Tamar, *-f, Bearlston* 1 6400 Tecsdale, *-f, Durham (pref.) 1 10000 Temple, f, Cardigan* 1 10000 Treleigh Wood, f, Redruth 6 12000 Trethellan, *-f, Oranstock* 2 640 Truco, *-f, Nerquis, Flintshire 10 5000 Tyn-y-Fron, *-f, Cardigan 1		
12000 Trethellan, s-l, Cranstock*	0	= :::
640 Truro,* l, Nerquis, Flintshire 10	J U	
5000 Tyn-y-Fron,* l, Cardigan 1	, U	11/8 1 11/8
	0	72 78 1/8
10000 Van Cons. and Glyn,* l, Llanidloes. 2 1000 Vaughan,* l, Cardiganshire 10		14 14 14
	0	=
12000 West Assheton, I, Carnarvon 1	0	
	9	614714 814
5500 West Combmartin, s-l, No. Devon 1	0	
7000 Ditto 0	6 6	
	0	8 7 8
12000 West Holway, L. Flintshire	0	136136 136
3000 West Mary Ann, l, Menheniot 0 1:	6	
199 Westminster Bog Issa, Llanarmon 5) H	
20000 W. of Engine Spac. Hone Lat. Sinte.	J U	5½ 5 5½ 2¾ 2½ 3
20000 West Pateley Bridge, * l, Yorkshire. 1 1783 West Poldice, St. Day1	0	274 21/2 3
1000 Wt. Roskear, t, s-l, bl, c, Camborne. 5 1		
2048 West Wheal Frances, t, Illogan 29	3	6½8½ 9½ 4¼3¾ 4¾
	· U	6½8½ 9½ 4¼3¾ 4½ 1 ½ ¾ 3½ 3¼ 4 2½ 3 3½
12000 West Wye Valley, * l, Montgomery. 3 6000 Wheal Agar, c, Illogan I		314 14 14
6144 Wheal Basset, c, Illogan	2 6	214 3 314
6000 Wheal Coates, t, St. Agnes 2	, U	
2635 W. Comfort, & No. Tres., c, Gwennap 1 1	U	21/3 3
5179 Wheal Grenville, c, Camborne 4	0	51/ 43/ 41/
2048 Wheal Jane, t, Keal 5 1		4 34 4
4295 Wheal Kitty, t, St. Agnes] 5	4 6	34 11/4 2
80 Wheal Owles, t, St. Just 1		6 3½ 4½ 5½ 4 3½ 4 4½ 22½ 20 22½
1000 Wheal Sisters t Lelent	1 6	
4096 Wheal Uny, t, c, Redruth	0	11/411/4 11/4
2324 White Cliff,* l, Llanrwst 5	U	***
10000 Wye Valley, I, Montgomery* 3	0	1 1/4 1/4

bl, blende; sl, coal; s, copper; g, gold; l, lead; s, silver; sl, slate; s-l, silver-lead; t, tin; z, zine; t, iron; a, arsenio.

* Limited Liability Companies; † quoted on the Stock Exchange; l have paid dividends.

NON-DIVIDEND FOREIGN MINES; FOREIGN AND MISCELLANEOUS STOCKS; TRAMWAYS; INSURANCE COMPANIES; GAS, IRON AND COAL, WAGON COMPANIES, &c.

NON-DIVIDEND FORBIGN MINES.	INSURANCE COMPANIES.
Shares Paid Clos. pr.	
40000 Ravenscliff, g, N. Zind; c, S. Aust. 8 5 0 #2181000 Rio Tinto, c, Huelva, Spain	WAGON COMPANIES Shares WAGON COMPANIES Shares Main Ma
GAS COMPANIES.	20 Shemeid Wagon Co. [L] 15 0 % 1/2 pm
Essue, Shares, Pd. Clos. pr.	FOREIGN AND MISCELLANEOUS STOCKS.
550000. Stk Commercial. 100 188 191 20000. 20 Continental Union [L] all 18 191 20000. 20 Do. do. New, 1859, 1872 14. 24 1½ dis 10000. 20 Do. do. 7 per ct. Preference all 22 ½ 23½ 33406. 10 European [L] all 17½ 18½ 4094850. Stk. Gaslight and Coke, A. Ord. 100 179½ 180½ 50000. 10 Ditto, 4th issue. all 17 18 50000. 10 Ditto, 4th issue. all 16 17 284200. Stk. Do, 4 per cent. Deb. Stock. 100 98 100 5000. 10 Hong Kong and China all 15 16	Argentine, 1868, 6 per cent. 87 89 Bolivia, 6 per cent. 87 89 Bolivia, 6 per cent. 36% 37% Brasilian, 1865, 5 per cent. 93 95 Chilian, 1866, 7 per cent. 81 84 City of Melbourne, 6 per cent., 1896-1907. 106 108
\$00000 10 Hong Kong and Ohina all 15 16 2800000 8tk Limperial Continental 100 178 179 288500 8tk London 100 174 178 581000 8tk Liverpool United 100 178 180 12000 5 Malta & Mediterranean [L] all 1½ 2½ 100000 Metrop & Melbourne 6 p.c. Deb. 101 103 xd 25000 20 Monte Video [L] all 13 14 10000 5 Ottoman [L] all 2½ 30000 5 Oriental [L] all 6½ 7 27000 20 Phenix all 6½ 7 27000 30 Phenix 12 27 38 200000 8tk Do. New Max. div. 7½ p.et. 30 109 113	City of Quebec 6 p. cent. Con. Fnd. Stg. Loan.104 106 City of Toronto, 6 p. ct. Sting. Bnds, 1897-1904.109 111 Egyptian Government pref. 75½ 76½ Ditto, Unified Debt, script 48½ 48½ Ditto, 7 per cent. V.M.L. 79 81 Ditto, 7 per cent. y.M.L. 79 81 Ditto, V. Daira Sanieh 85 87 Ditto, K. Daira Sanieh 86 86 86 87 Foreign and Colonial Gov. Trust. professed 101 104
27000 20Phenix	Ditto, 5 per cent., deferred

1 12 12 13 14 15 15 15 15 15 15 15	1 .
0090 25 Ocean Marine 6 1½ 2 — Phoenix 1 11 0000 10 12½ 2½ pn 0000 10 Railway Passongers 25s. 7½ 8½ 0000 16 Rock Life ½ 8 8½ 4810 10 Royal Farmers 2 5½ 4810 10 Royal Farmers 2 5½	1 .
0090 25 Ocean Marine 6 1½ 2 — Phoenix 1 11 0000 10 12½ 2½ pn 0000 10 Railway Passongers 25s. 7½ 8½ 0000 16 Rock Life ½ 8 8½ 4810 10 Royal Farmers 2 5½ 4810 10 Royal Farmers 2 5½	1 .
0090 25 Ocean Marine 6 1½ 2 — Phoenix 1 11 0000 10 12½ 2½ pn 0000 10 Railway Passongers 25s. 7½ 8½ 0000 16 Rock Life ½ 8 8½ 4810 10 Royal Farmers 2 5½ 4810 10 Royal Farmers 2 5½	1 .
0090 25 Ocean Marine 6 1½ 2 — Phoenix 1 11 0000 10 12½ 2½ pn 0000 10 Railway Passongers 25s. 7½ 8½ 0000 16 Rock Life ½ 8 8½ 4810 10 Royal Farmers 2 5½ 4810 10 Royal Farmers 2 5½	1 .
0090 25 Ocean Marine 6 1½ 2 — Phoenix 1 11 0000 10 12½ 2½ pn 0000 10 Railway Passongers 25s. 7½ 8½ 0000 16 Rock Life ½ 8 8½ 4810 10 Royal Farmers 2 5½ 4810 10 Royal Farmers 2 5½	1 .
0090 25 Ocean Marine 6 1½ 2 — Phoenix 1 11 0000 10 12½ 2½ pn 0000 10 Railway Passongers 25s. 7½ 8½ 0000 16 Rock Life ½ 8 8½ 4810 10 Royal Farmers 2 5½ 4810 10 Royal Farmers 2 5½	1 .
0090 25 Ocean Marine 6 1½ 2 — Phoenix 1 11 0000 10 12½ 2½ pn 0000 10 Railway Passongers 25s. 7½ 8½ 0000 16 Rock Life ½ 8 8½ 4810 10 Royal Farmers 2 5½ 4810 10 Royal Farmers 2 5½	1 .
0090 25 Ocean Marine 6 1½ 2 — Phoenix 1 11 0000 10 12½ 2½ pn 0000 10 Railway Passongers 25s. 7½ 8½ 0000 16 Rock Life ½ 8 8½ 4810 10 Royal Farmers 2 5½ 4810 10 Royal Farmers 2 5½	1 .
0090 25 Ocean Marine 6 1½ 2 — Phoenix 1 11 0000 10 12½ 2½ pn 0000 10 Railway Passongers 25s. 7½ 8½ 0000 16 Rock Life ½ 8 8½ 4810 10 Royal Farmers 2 5½ 4810 10 Royal Farmers 2 5½	1 .
- Phoents - 114 117 0000 10 Queen 1 2½ 2½ pn 0000 18 Kailway Passongers 29s 7% 8½ 0000 6 Rock Life 56 88% 4810 10 Royal Farrners 2 5% 6	1
0000 10 Queen 1 .2½ 2½ pn 0000 10 Railway Passongers 23s. 7½ 8½ 0000 6 Rock Life ½.8 8½ 4810 10 Royal Farmers 2 5½ 6	1
4810 10 Royal Farmers 2 51/4 6	1 1
4810 10 Royal Farmers 2 51/4 6	
0000 10 Sea 4 41/6	1
	1
0000 10 Scottish Commercial	
	n 3
0640 20 Union Marine, Liverpool [Li 5 81/4 81/	1
0000 20 Thames and Mersey Marine [L]. 26% 6½ pn 0644 20 Union Marine, Liverpool [L] 5 8½ 8½ 0000 20 Universal Marine [L] 8 5 5½	
W	
WAGON COMPANIES.	
Shares, Pd. Clos. pr.	
Solvies. — PM. Clos. pr. 10 Birmingham Wagon Co. [L] £10 0 12 12½ 10 Ditta 2nd issue	
10 Ditte 2nd issue	1
10 Birmingham Wagon Co. [L] £10 0 12 12½ 10 Ditte 2nd issue 4 0 ½ ½ pt 10 Ditto pref., 6 per cont. 10 6 10½ 11½ 20 British Wagon Co. [L] 10 0 11½ 1½ ps	2
10 Ditto oth issue 5 0 2½ 2 dis 10 Met. Rail. Cur. & Wagon Co.[L] 5 9 1½ 2 pr 5 Ditto pref., 6 per cont 5 0 ½ ½ pr	
5 Ditto pref., 6 per cent 5 6 1/2 1/2 pr	1
10 Ditto 5th issue	1 *
5 Rail. Car. [L] Oldbury 6 0 3 31/4	
5 Ditto pref., 6 per cent 5 0 413/16 415/16	
20 Shemeid Wagon Co. [L] 15 0 14 1/2 pr	n 1
10 Yorkshire Wagon Co. [L] 10 0 14 1/4 pr	1 1
Martin Company (Martin Company)	1
	1
FOREIGN AND MISCELLANEOUS STOCKS.	
Argentine, 1868, 6 per cent. Closing prices,	1
Bolivia, 8 per cent. Bond Com. Cert. 3614 3714	1
Brazilian, 1865, 5 per cent 93 95	
Chilian, 1666, / per cent	
City of Melbourne, 5 per cent. 1896-1907 106 108	
City of Melbourne, 5 per cent., 1896-1907106 108 City of Ottawa, 8 per cent. Sterling109 111	
City of Melbourne, 5 per cent., 1896-1907	
City of Melbourne, 5 per cent., 1896-1907	
Argentine, 1868, 6 per cent. 87 89 Bolivia, 5 per cent. 807 89 Bolivia, 6 per cent. 93 95 Brazilian, 1885, 5 per cent. 93 95 Chilian, 1865, 7 per cent. 93 95 Chilian, 1865, 7 per cent. 1895-1907. 106 108 City of Melbourne, 5 per cent., 1895-1907. 106 108 City of Ottawa, 6 per cent. Sterling 199 111 City of Providence, 5 per cent. coupon bonda, 103 105 City of Quebec 6 p. cent. Con. Fnd. 8tg. Loan. 104 106 City of Toronto, 6 p. ct. Sting. Bnds, 1897-1904.109 Egyptian Government pref. 78% 76%	Bi
City of Melbourne, 5 per cent., 1896-1907	81
City of Melbourne, 5 per cent., 1896-1907 108 City of Ottawa, 6 per cent. Sterling 109 111 City of Providence, 5 per cent. coupon bonds., 103 105 City of Quebec 6 p. cent. Con. Fnd. 8tg. Loan. 104 106 City of Toronto, 6 p. ct. 8ting. Bnds, 1897-1904.109 111 Egyptian Government pref. 78½ 78½ Ditto, Unified Debt. script 48½ 48½ Ditto, 7 per cent. V.M.L. 79 81 Ditto, 9 per cent. guaranteed 85 87 85 85 87	81
Ditto, Unified Debt, script 48% 48% 18%<	81
Ditto, Unified Debt, script	Bi
Ditto, Unified Debt, acript	81
Ditto, Unified Debt, acript	81
Ditto, Unified Debt, acript	

1	IRON AND COAL COMPANIES. Shares, Company, Paid, Price.	
	£100 Abbot, John, and Co [L] £ 75 0 45 40 dis	1
	5 Alltami Colliery Co. [L] 5 U 2% 3	•
1	3 Bagnall, John, and Sons [L] 3 0 2 21/4	
I	10 Bilbeo Iron Co III 50 0 8 9	2
I	100 Bolckow, Vaughan, & Co. [L] A 60 0 8 7 dis 50 Brown, Bailey, and Dixon [L] 40 0 21 20 dis	1
	3 Cakemore Cseway Grn. ord.sh. 3 0 334 354	3
	3 Ditto (71/2 per cent. pref.) 3 0 33/4 4	
	10 Central Swedish Iron &Stl. [L] 10 0 1 1½	3 2
	5 Chapel House Colliery 5 0 1 115 50 Charlton Iron Co. [L] 50 0 7 8 50 Chatterley Iron Co. [L] 50 0 5 10	1 6
	10 Chillington Iron Co. [L]	1
	10 Consett Iron Co. [L]	•
	20 Darlington Iron Co. [L] 14 0 3/4	1
ı	23 Ebbw Vale Co. [L] 29 8 61/2 71/2	1
	10 Genl. Mining Ass. [L] (11. rtd.) 9 0 3% 4%	2
	50 Knowles, Andrew, and Co. [L] 22 0 12½ 12 dis	2
	50 Llynvi, Ogmore, & Tondu (L) 50 0 5 5½ 10 Lydney & Wigpool Iron Ore (L) 9 5 1 1½	
	10 Marbella Iron Ore Co. [L] 10 0 1 1½ 10 Midland Iron Co. [L] 5 0 2½ 2½ dis	
	4 Mwyndy Iron Ore [L] 3 18 2% 1% dis	
	100 Nant-y-Glo & Blaina (8 p.c. prf.) 100 0 20 22 3 Nerbudda Coal & Iron [L & Red) 2 0 2 13/4 dis	
	10 Newport Abercarn Coal Co. [L] 10 0 4½ 5	1
1		1
	35 Palmer's Shipbldg. & Iron [L] 35 0 17 15 dis 100 Parkgate Iron Co. [L]	1
	50 Rhymney Iron Co. [L] 50 0 14 16	
1	10 Sandwell Park Colliery Co. [L] 10 6 13 14 100 Shotte Iron Co. [L]	
	100 Sheepbridge Iron and Coal [L] 80 8 50 47½ dia 50 Silkstone & Dodw. Cl. & Iron [L] 33 0 30 28 dia 50 Somorrostro Iron Co. (L) 50 0	9
	S0 Somorrostro Iron Co. [L] 50 0 100 Staveley Iron and Coal Co. [L] 60 0 7 5 dis 100 Ditto dito New 10 0 2 1½ dis	
		1
	20 Ulverston Mining Co. [L] 18 0 14 10 dis 10 Vancouver Coal [L] 6 0 4 3 dis 100 Vickers, Sons, and Co. [L] 100 0 3 2 dis 25 W.Cumberland Iron & Steel [L] 20 0 6½ 7	1
		1
	TELEGRAPH COMPANIES.	
	8tk. Anglo-American	
	20 Direct United States Cable 20 0 11 11½ 10 Eastern 10 0 8 8½	
	10 East. Exten. Austr. and China 10 0 8 83/ 10 Great Northern 10 0 83/ 83/ 25 Indo-European 25 0 21 22	1

	Ditto dito New 10	v		4	136	di
20	Ulverston Mining Co. [L] 16 Vancouver Coal (L) 6	0			10	di
100	Vickers, Sons, and Co. [L]100	0		3	7	di
	-					
	TELEGRAPH COMPA	N	IE	s.		
10	Brazilian Submarine 10 Direct United States Cable 20	0	***	67/8		
10	East. Exten. Austr. and China 10 Great Northern 10	00	***	8 836	834 836	
10	Mediterranean Extension 10	000			31/4 10	
Stk.	Submarine100 West India and Panama 10		100	136	156	
					126	
	10 100 25 8tk. 10 20 10 10 10 25 8tk.	10 Vancouver Coal [L] 100 25 W.Cumberland Iron & Steel [L] 20 25 W.Cumberland Iron & Steel [L] 20 TELEGRAPH COMPA 8tk. Anglo-American 100 10 Brazilian Submarine 10 20 Direct United States Cable 20 21 Eastern 10 22 Eastern 10 23 Eastern 10 24 Eastern 10 25 Indo European 25 26 Mediterranean Extension 10 28 Reuters 8 28 W. Submarine 10 20 West India and Panama 10 20 Western and Brazilian 20	10 Vancouver Coal [L] 6 6 100 Vickers, Sons, and Co. [L] 100 0 25 W.Cumberland Iron & Steel [L] 20 6 TELEGRAPH COMPAN 8tk. Anglo-American 100 0 10 Brazilian Submarine 10 0 20 Direct United States Cable 20 0 10 Eastern 10 0 10 Great Northern 10 0 25 Indo-European 25 0 10 Mediterranean Extension 10 0 8 Reuters 8 0 8tk. Submarine 100 0 8tk. Submarine 100 0 10 West India and Panama 10 0 10 West India and Panama 10 0 10 West India and Panama 10 0 20 Western and Brazilian 20 0	10 Vickers, Sons, and Co. [L] 6 0 100 Vickers, Sons, and Co. [L] 100 0 25 W.Cumberland Iron & Steel [L] 20 0 TELEGRAPH COMPANIE 8tk. Anglo-American	10 Vinceuver Coal [L] 6 6 4 4 100 Vinceurs, Sons, and Co. [L] 100 0 3 25 W.Cumberland Iron & Steel [L] 20 6 6 5 4 TELEGRAPH COMPANIES. Stk. Anglo-American 100 0 5734 10 Brazilian Submarine 10 0 6 6 7 20 Direct United States Cable 20 0 11 11 Eastern 10 0 8 10 Great Northern 10 0 8 11 Great Northern 10 0 8 12 Indo-European 25 0 21 11 Mediterranean Extension 10 0 294 8 Reuters 8 0 9 8tk. Submarine 10 0 225 10 West India and Panama 10 0 154	10 Vickers, Sons, and Co. [L] 6 6 8 4 3 100 Vickers, Sons, and Co. [L] 100 0 3 2 25 W.Cumberland Iron & Steel [L] 20 6 . 6½ 7 TELEGRAPH COMPANIES. 8tk. Anglo-American 100 0 57% 58% 10 Brazilian Submarine 10 0 6 6% 7% 20 Direct United States Cable 20 0 11 10 10 East. Exten. Austr. and Ohina 10 8 8% 10 Great Northern. 10 0 8 8% 25 Indo-European 25 0 21 22 10 Mediterranean Extension 10 0 2% 3% 8 Reuters 8 0 9 10 8tk. Submarine 100 0 225 20 10 West India and Panama 10 6 125 14 20 Western and Brazilian 20 0 3% 18%

		TRAMWAYS.
Issue. S		
40000	5	Anglo-Argentine [L] all45 4%
7140 3050 3000 9290	10 10 10 10	Barcelons [L]
		Chester [L] all9½ 10%
		Dublin all121/2121/4
14690	10	Edinburgh Street Tramways all 14 141/2
35000	10	Glasgow Tramway & Omni. [Lj. 9954 974
10000	10	Hughes Loco, and Tram. works. all9 1/2 9 1/2 12 1/2 12 12 12 12 12 12 12 12 12 12 12 12 12
7500	10	Imperial [L]all 9 10
25000 15000	10	Liverpool Unit, Tram & Om. [L] all11½11½ London [L]
8000	10	North Metropolitan
11947	10	Provincial [L] all105410%
5000 6000 10000	10 10 10	Sheffield all8 8 %Southampton all .10 % 11 %Sunderland [L] all9 9 %Swansea all5 % 6
16500 20000	10	Tramways of France [L]
		Vale of Clyde 643% 41/4
7200	10	Wolverhampton [L] all10 101/2

	MISCELLANEOU	JS.				
25 10	Atlantic and Great Western Leased Lines, Rental Trust 100 Australian Agricultural	10	***	70 85 61/2	72 87 7	
25 5 16	City of London Real Property 12 Diamond Rock Boring 4 Fore Street Warehouse [L] 14 Foster, Porter, and Co. [L] 10	10	***	134 334 336	2¾ 3¼	pm dis pm
Stk. Stk.	Hudson's Bay Company	0	***	14¾ 97 47 7¾ 6	15 99 50 734 636	
10 25	Lehigh Val.Con.Mort', A,7p.c. 100 Milner's Safe [L]	0	***	7% 9%	1071/6 81/4 93/4	
10 50 Stk.	N. Cent. Rail Mort., 6 percent. 10 Pawson and Co. [L]	0	***	95 1/4 d 47 116 1081/4	96 is par 49 117 1091/2	
Stk.	Scottish Australian Invt. Co. 100 Ditto 6 per cent. pref100 Ditto New Ordinary 10	0		180 127 4736	190 132 50	
5 10	Telegraph Const. & Maint. [L] 12 Ditto, 2nd Bonus, 3 per cent 5 Tharsis Sulphur & Copper Co 10	0		31¾ 2¾ 27½	281/2	
	Union Pacific Land Gt., 1st Mt. 100 Union Pacific Ry., 1st Mort,100			114 11434	116	

London: Printed by RICHARD MIDDLETON, and published by Henry English (the proprieters), at their office, 26, Flerg Street, E.C., where all communications are requested to be addressed.—October 11, 1879.